

COMPOUND INDEX

VOLUMES 501-550

A

Abamectin-8,9-oxide

Normal-phase chromatography and post-column colorimetric detection of abamectin-8,9-oxide 511(1990)353

Abierixin

Separation and determination of polyether carboxylic antibiotics from *Streptomyces hygroscopicus* NRRL B 1865 by thin-layer chromatography with flame ionization detection 547(1991)411

Abietane-type compounds

High-performance liquid chromatography of abietane-type compounds 542(1991)317

Abscisic acid

Semi-automated method for the determination of abscisic acid in crude plant extracts 503(1990)459

Direct liquid chromatographic resolution of (*R*)- and (*S*)-abscisic acid using a chiral ovomucoid column 504(1990)445

Optical resolution of abscisic acid metabolites using an ovomucoid-conjugated high-performance liquid chromatographic column 508(1990)217

Acebutolol

Stereospecific high-performance liquid chromatographic assay of acebutolol in human plasma and urine 526(1990)129

Acenocoumarol

Determination of the plasma protein binding of the coumarin anticoagulants phenprocoumon and its metabolites, warfarin and acenocoumarol, by ultrafiltration and high-performance liquid chromatography 529(1990)479

Acetaminophen

see Paracetamol

Acetate

Analysis of some synthetic insect pheromones by gas-liquid chromatography 509(1990)69

High-performance liquid chromatography on silica dynamically modified with hydrazinium derivatives 521(1990)19

Analysis of blood acetate by head-space gas chromatography: comparative studies of reagents for the methyl esterification 529(1990)155

Optimization of isotachopheretic analysis: use of the charge-based transient-state model 545(1991)249

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Acetic acid

Utilization of capillary isotachopheresis in the determination of organic acids in food 509(1990)283

Competition between phenylalanine and acetic acid in a chromatographic column as indicated by their adsorption isotherms 517(1990)285

Isotachopheretic analyser equipped with a scanning ultraviolet photometric detection system 538(1991)403

Direct determination of acetic acid in strongly acidic hydrolysates of chitin and chitin-containing biological products by capillary gas chromatography 538(1991)431

Acetone

Systematic errors with the use of internal standard calibration in gas chromatographic headspace analysis 518(1990)1

Acetonitrile

Reversed-phase liquid chromatographic study of excess and absolute sorption isotherms of acetonitrile-water mixtures 550(1991)285

Acetoxyscirpendiol

Heptafluorobutyrylation of trichothecenes using a solid-phase catalyst 511(1990)384

Acetoxyscirpenols

Use of 1-[*p*-(2,3-dihydroxypropoxy)phenyl]-1-alkanones as retention index standards in the identification of trichothecenes by liquid chromatography-thermospray and dynamic fast atom bombardment mass spectrometry 543(1991)39

Acetylacetonate

Use of β -diketonate anions as eluent in non-suppressed ion chromatography. Acetylacetonate eluent for the separation of fluoride and chloride 523(1990)257

Acetylacetone

Factors influencing the retention of rare earth-tetraphenylporphine complexes in reversed-phase high-performance liquid chromatography 542(1991)351

Acetylacetone metal chelates

Studies on the separation of Al^{III}, Co^{III}, Cr^{III} and Fe^{III} complexes with acetylacetone by reversed-phase high-performance liquid chromatography 502(1990)221

N-Acetylaminodilactones

Liquid chromatography-thermospray mass spectrometric study of N-acylamino dilactones and 4-butyrolactones derived from antimycin A 522(1990)179

N-Acetylaspartylglutamate

Quantification of N-acetylaspartylglutamate, an N-terminal blocked dipeptide neurotransmitter candidate, in brain slice superfusates by gas chromatography-mass spectrometry 532(1990)27

Acetyl-L-carnitine

Chromatographic and non-chromatographic assay of L-carnitine family components (Review) 527(1990)247

Acetyl chloride

Degradation and analysis of oligooxyethylene glycol mono(4-*tert*.-octylphenyl) ethers in the presence of acetyl chloride 502(1990)407

Acetylcholine

Improvements in the separation and detection of acetylcholine and choline using liquid chromatography and electrochemical detection 502(1990)337

Simultaneous high-performance liquid chromatographic determination of norepinephrine, serotonin, acetylcholine and their metabolites in the cerebrospinal fluid of anaesthetized normotensive rats 526(1990)1

Measurement of acetylcholine and choline in cerebrospinal fluid by high-performance liquid chromatography: failure to detect acetylcholine in normal human cerebrospinal fluid 529(1990)408

Determination of succinylcholine hydrolytic enzyme activity in human plasma 533(1990)23

Detection of choline and acetylcholine by high-performance liquid chromatography. Limitations, pitfalls, sample preparation 537(1991)514

Acetylcholinesterase

High-performance liquid chromatography of proteins on a ceramic hydroxyapatite with volatile buffers 515(1990)521

N-Acetylcilastatin

High-performance liquid chromatographic determination of cilastatin and its major metabolite N-acetylcilastatin in rat plasma, urine and bile 534(1990)119

Acetyl-coenzyme A carboxylase

High-performance liquid chromatographic determination of four kinds of biotin-containing carboxylase 529(1990)55

Acetylcysteine

Analysis of decomposition products of alkyl nitronic acids by reversed-phase high-performance liquid chromatography 505(1990)402

High-performance liquid chromatographic determination of aliphatic thiols with aroylacrylic acids as fluorogenic precolumn derivatization reagents 507(1990)451

N-Acetyldopamine

Identification and quantitation of N-acetyl metabolites of biogenic amines in the thoracic nervous system of the locust, *Schistocerca gregaria*, by gas chromatography–negative-ion chemical ionisation mass spectrometry 532(1990)13

2'-Acetylerythromycin

Determination of erythromycin base and 2'-acetylerythromycin in human plasma using high-performance liquid chromatography with electrochemical detection 526(1990)475

Acetylhomotaurinate, calcium salt

Determination of calcium acetylhomotaurinate in human plasma and urine by combined gas chromatography–negative-ion chemical ionization mass spectrometry 530(1990)295

N-Acetylneuraminic acid

Determination of N-acetyl- and N-glycolylneuraminic acids in glycoconjugates by reversed-phase high-performance liquid chromatography with ultraviolet detection 503(1990)421

N-Acetyloctopamine

Identification and quantitation of N-acetyl metabolites of biogenic amines in the thoracic nervous system of the locust, *Schistocerca gregaria*, by gas chromatography–negative-ion chemical ionisation mass spectrometry 532(1990)13

Acetyloxycaffeic acids

Synthesis of esters of acetyloxycaffeic acids and their occurrence in poplar bud exudates 543(1991)113

3-Acetylpyridine

Capillary tube isotachophoretic separation of niacin derivatives 521(1990)158

Acetylsalicylic acid

Determination of non-steroidal anti-inflammatory analgesics in solid dosage forms by high-performance liquid chromatography on underivatized silica with aqueous mobile phase 504(1990)381

Characterization of an internal-surface reversed-phase silica support for liquid chromatography and its application to assays of drugs in serum 515(1990)59

N-Acetylserotonin

Determination of six indolic compounds, including melatonin, in rat pineal using high-performance liquid chromatography with serial fluorimetric–electrochemical detection 528(1990)111

Identification and quantitation of N-acetyl metabolites of biogenic amines in the thoracic nervous system of the locust, *Schistocerca gregaria*, by gas chromatography–negative-ion chemical ionisation mass spectrometry 532(1990)13

N⁸-Acetylspermidine

High-performance liquid chromatographic method for the determination of dansyl-polyamines 511(1990)177

N₄-Acetylsulphadimethoxine

High-performance liquid chromatography of sulphadimethoxine and its N₁-glucuronide, N₄-acetyl and N₄-acetyl-N₁-glucuronide metabolites in human plasma and urine 526(1990)119

N₄-Acetylsulphadimethoxine-N₁-glucuronide

High-performance liquid chromatography of sulphadimethoxine and its N₁-glucuronide, N₄-acetyl and N₄-acetyl-N₁-glucuronide metabolites in human plasma and urine 526(1990)119

N-Acetylsulphamethazine

Identification and determination of sulphamethazine and N⁴-acetylsulphamethazine in meat by high-performance liquid chromatography with photodiode-array detection 502(1990)371

Acetylsulphamethoxazole

Comparison of colorimetric and high-performance liquid chromatographic determination of sulphamethoxazole and acetylsulphamethoxazole 527(1990)174

Ion-paired high-performance liquid chromatographic separation of trimethoprim, sulfamethoxazole and N⁴-acetylsulfamethoxazole with solid-phase extraction 528(1990)235

N-Acetyltyramine

Identification and quantitation of N-acetyl metabolites of biogenic amines in the thoracic nervous system of the locust, *Schistocerca gregaria*, by gas chromatography–negative-ion chemical ionisation mass spectrometry 532(1990)13

 α_1 -Acid glycoprotein

Direct high-performance liquid chromatographic determination of the enantiomers of alfuzosin in plasma on a second-generation α_1 -acid glycoprotein chiral stationary phase 506(1990)601

Influence of uncharged mobile phase additives on retention and enantioselectivity of chiral drugs using an α_1 -acid glycoprotein column 519(1990)271

Separation of the enantiomers of β -receptor blocking agents and other cationic drugs using a CHIRAL-AGP® column. Binding properties and characterization of immobilized α_1 -acid glycoprotein 519(1990)285

Capillary zone electrophoresis of α_1 -acid glycoprotein fragments from trypsin and endoglycosidase digestions 536(1991)31

High-performance anion-exchange chromatographic study of desialylated human α_1 -acid glycoprotein variants. Development of a fractionation method for the protein slow variants 539(1991)405

Acidic drugs

Solid-phase extraction for the screening of acidic, neutral and basic drugs in plasma using a single-column procedure on Bond Elut Certify 529(1990)161

Acid progabide

Simultaneous determination of progabide and its acid metabolite by reversed-phase high-performance liquid chromatography 527(1990)214

Acid red

Purification of Food Color Red No. 106 (Acid Red) using high-speed counter-current chromatography 538(1991)149

Acids, dibasic

Effect of polymer ion concentrations on migration velocities in ion-exchange electrokinetic chromatography 515(1990)667

Acids, monobasic

Effect of polymer ion concentrations on migration velocities in ion-exchange electrokinetic chromatography 515(1990)667

Acrylamide

Determination of residual acrylamide monomer in solution and emulsion polymers by column-switching high-performance liquid chromatography 519(1990)363

Evaluation of chemical structural heterogeneity of cationic acrylamide copolymers by high-performance liquid chromatography 536(1991)203

Acrylate–styrene copolymers

Liquid adsorption chromatography of styrene copolymers of methacrylates and acrylates 507(1990)473

Acrylonitrile

Isotope dilution gas chromatography–mass spectrometry in the determination of benzene, toluene, styrene and acrylonitrile in mainstream cigarette smoke 503(1990)359

Activated carbon

Improvement of activated carbon for air sampling 503(1990)33

Thermal desorption of organic pollutants enriched on activated carbon. V. Desorption behaviour and temperature profile 520(1990)131

Acyl coenzyme A

Combined high-performance liquid chromatographic–continuous-flow fast atom bombardment mass spectrometric analysis of acylcoenzyme A compounds 527(1990)289

Acyl coenzyme A, long-chain

Long-chain fatty alcohol quantitation in subfemtomole amounts by gas chromatography–negative ion chemical ionization mass spectrometry. Application to long-chain acyl coenzyme A measurement 509(1990)325

Adamantane

Characterization of an adamantyl-modified silica used as a stationary phase in high-performance liquid chromatography 514(1990)11

ADD17014

Triazolines. XXII. Chromatography of 1-phenyl-5-(4-pyridyl)-2²-1,2,3-triazolines and related 1,2,3-triazoles, a new class of anticonsulvant agents 533(1990)248

Adenine

Direct injection of blood samples into a high-performance liquid chromatographic adenine analyser to measure adenine, adenosine and the adenine nucleotides with fluorescence detection 515(1990)363

Adenine nucleotides

Design and applications of biomimetic anthraquinone dyes. III. Anthraquinone-immobilised C.I. Reactive Blue 2 analogues and their interaction with horse liver alcohol dehydrogenase and other adenine nucleotide-binding proteins 508(1990)109

Direct injection of blood samples into a high-performance liquid chromatographic adenine analyser to measure adenine, adenosine and the adenine nucleotides with fluorescence detection 515(1990)363

Application and validation of an ion-exchange high-performance liquid chromatographic method for measuring adenine nucleotides, creatine and creatine phosphate in mouse brain 527(1990)31

Measurement of adenine nucleotide levels with an adenine analyser as an index of freshness of porgy 528(1990)305

Adenosine

Direct injection of blood samples into a high-performance liquid chromatographic adenine analyser to measure adenine, adenosine and the adenine nucleotides with fluorescence detection 515(1990)363

Measurement of adenine nucleotide levels with an adenine analyser as an index of freshness of porgy 528(1990)305

Determination of adenosine and cyclic adenosine monophosphate in urine using solid-phase extraction and high-performance liquid chromatography with fluorimetric detection 529(1990)437

Quantitation of adenosine, inosine and hypoxanthine in biological samples by microbore-column isocratic high-performance liquid chromatography 536(1991)265

Adenosine deaminase

Preparative purification of adenosine deaminase from human erythrocytes by affinity chromatography 532(1990)75

Adenosine 5'-monophosphate

Measurement of adenine nucleotide levels with an adenine analyser as an index of freshness of porgy 528(1990)305

Adenosine 5'-triphosphate

Measurement of adenine nucleotide levels with an adenine analyser as an index of freshness of porgy 528(1990)305

Adipimide

Examination of organic trace contamination and thermo-oxidative deterioration of ϵ -caprolactam by high-performance liquid chromatography 508(1990)149

Adrenaline

Determination of free catecholamines in human urine by direct injection of urine into a liquid chromatographic column-switching system with fluorimetric detection 515(1990)435

Fully automated high-performance liquid chromatographic assay for the analysis of free catecholamines in urine 530(1990)11

Simple approach for reversal of the epinephrine-norepinephrine elution order in ion-pair reversed-phase liquid chromatography 532(1990)394

Determination of plasma catecholamines via condensation with diphenylethylenediamine: simplification of the procedure 533(1990)166

Detection of octopamine in an insect ganglion by high-performance liquid chromatography-native fluorescence 549(1991)400

 β -Adrenergic blocking agents

see β -Blockers

Adrenocorticotrophin

Analysis of endoproteinase Arg C action on adrenocorticotrophic hormone by capillary electrophoresis and reversed-phase high-performance liquid chromatography 543(1991)451

Capillary electrophoresis of peptides. Analysis of adrenocorticotrophic hormone-related fragments 545(1991)379

Aerosol OT

Effects of ionic strength of eluent on size analysis of sub-micrometre particles by sedimentation field-flow fractionation 515(1990)27

Aflatoxins

Comparison of the EASI-EXTRACT immunoaffinity concentration procedure with the AOAC CB method for the extraction and quantitation of aflatoxin B₁ in raw ground unskinned peanuts 511(1990)379

Automated aflatoxin analysis of foods and animal feeds using immunoaffinity column clean-up and high-performance liquid chromatographic determination 543(1991)220

Agarose

Effect of polyethylene glycol on the non-specific adsorption of proteins to Eupergit C and agarose 510(1990)271

Stability of Superdex 75 prep grade and Superdex 200 prep grade under different chromatographic conditions 547(1991)21

Agglutinin

Affinity-repulsion chromatography 510(1990)49

Aglycones

Lipophilic character of cardiac glycosides. R_M values as lipophilicity parameters 504(1990)163

Separation of peracetylated flavanoid and flavonoid polyphenols by normal-phase high-performance liquid chromatography on a cyano-silica column and their determination 514(1990)334

Identification of a new minor iridoid glycoside in *Symplocos glauca* by thermospray liquid chromatography-mass spectrometry 515(1990)503

Agmatine

Simultaneous determination of biogenic amines by reversed-phase high-performance liquid chromatography 508(1990)225

AJ-2615

Determination of a novel calcium entry blocker, AJ-2615, in plasma using solid-phase extraction and high-performance liquid chromatography with electrochemical detection 532(1990)175

Ajmalicine

Gas chromatographic-mass spectrometric analysis of major indole alkaloids of *Catharanthus roseus* 505(1990)429

Alanine

Separation of enantiomers using polymeric copper-amine-cellulose columns 513(1990)370

Investigation of parameters in the separation of amino acid enantiomers by supercritical fluid chromatography 514(1990)253

Enantiomeric resolution by micellar electrokinetic chromatography with chiral surfactants 515(1990)221

Use of a focusing cylindrical lens for increasing sensitivity in the optical detector of a capillary flow-through cell 515(1990)357

Rapid high-performance liquid chromatographic determination of γ -aminobutyric acid and some other amino acids: application to rat brain 532(1990)438

Albumin

Aluminum ion mediated stabilization of silica-based anion-exchange packings to caustic regenerants 503(1990)385

Study of the dynamic binding capacity of two anion exchangers using bovine serum albumin as a model protein 504(1990)89

Adsorption behaviour of albumin and conalbumin on TSK-DEAE 5PW anion exchanger 504(1990)335

Two-component protein adsorption to the cation exchanger S Sepharose® FF 505(1990)329

Application of low-angle laser light scattering detection in the field of biochemistry. Review of recent progress 506(1990)409

Modification of silica with glucose for the separation of proteins by high-performance liquid chromatography 508(1990)289

Tresyl-activated support for high-performance affinity chromatography 510(1990)101

Predicting the performance of gel-filtration chromatography of proteins 512(1990)77

Separation of fragments from human serum albumin and its charged variants by reversed-phase and cation-exchange high-performance liquid chromatography 512(1990)165

Rapid high-performance liquid chromatographic protein quantitation of purified recombinant Factor VIII containing interfering substances 512(1990)213

Binding capacities of hydroxyapatite for globular proteins 515(1990)193

Evaluation of ammonium acetate as a volatile buffer for high-performance hydrophobic-interaction chromatography 515(1990)279

Apparatus for coupled high-performance liquid chromatography and capillary electrophoresis in the analysis of complex protein mixtures 515(1990)659

Adsorption of proteins on porous and non-porous poly(ethyleneimine) and tentacle-type anion exchangers 522(1990)77

High-performance liquid chromatography of serum albumins on an N-methylpyridinium polymer-based column 525(1990)176

Analysis of human tear proteins by different high-performance liquid chromatographic techniques 525(1990)319

Affinity chromatographic isolation of a major polyamine binding protein from serum and placenta, identified as serum albumin 527(1990)146

High-performance liquid chromatographic determination of the binding of ceftriaxone to human serum albumin solution and albumin from diluted human serum 528(1990)415

Comparative affinity chromatographic studies using novel grafted polyamide and poly(vinyl alcohol) media 539(1991)307

Simple equilibrium dialysis-high-performance liquid chromatographic method for the *in vitro* assessment of 5-methoxypsoralen bound to human albumin 539(1991)443

Isolation and purification of cat albumin from cat serum by copper ion affinity chromatography: further analysis of its primary structure 539(1991)475

Equilibria of biomolecules on ion-exchange adsorbents 542(1991)19

Elimination of the temperature-induced loss of the enantioselectivity of chemically bonded albumin 543(1991)475

Evaluation of vinylpyridine and vinylpyridinium polymers as column packings for high-performance liquid chromatography (Review) 544(1991)219

Two-dimensional electrophoresis: agarose gel isotachopheresis followed by sodium dodecyl sulphate-polyacrylamide electrophoresis 545(1991)343

Application of the split-peak effect to study the adsorption kinetics of human serum albumin on a reversed-phase support 548(1991)81

Albuterol

Quantitative determination of cholesterol in liposome drug products and raw materials by high-performance liquid chromatography 507(1990)157

Alcohol dehydrogenase

Affinity gel interactions of alcohol and polyol dehydrogenases: anomalous behaviour and structural correlations 502(1990)69

Design and applications of biomimetic anthraquinone dyes. III. Anthraquinone-immobilised C.I. Reactive Blue 2 analogues and their interaction with horse liver alcohol dehydrogenase and other adenine nucleotide-binding proteins 508(1990)109

Purification of yeast alcohol dehydrogenase by Congo red affinity chromatography 519(1990)379

Alcohol ethoxylates

Supercritical fluid chromatography-mass spectrometry of non-ionic surfactant materials using chloride-attachment negative ion chemical ionization 505(1990)199

Alcohols

Acylation effects on chiral recognition of racemic amines and alcohols by new polar and non-polar cyclodextrin derivative gas chromatographic phases 502(1990)154

Sensitive, indirect photometric detector for high-performance liquid chromatography using a light-emitting diode 502(1990)305

Chiral organosilicon compounds. II. Comparison of gas-liquid chromatographic and NMR analyses of enantiomeric alcohols 503(1990)437

Fractionation of lemon-peel oil by semi-preparative supercritical fluid chromatography 505(1990)237

Retention behaviour of mono- and dicarboxylic acids, carbohydrates and alcohols in ion-exclusion chromatography 506(1990)157

Indirect fluorometric detection in open-tubular capillary column chromatography 506(1990)401

Analysis of some synthetic insect pheromones by gas-liquid chromatography 509(1990)69

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

High-precision sampling of sub-nanogram, low-parts-per-billion solutes from liquids using the dynamic solvent effect 511(1990)271

Optical resolution of racemic compounds on chiral stationary phases of modified cellulose 515(1990)85

Characteristics of C₄- and C₈-bonded vinyl alcohol copolymer gels for reversed-phase high-performance liquid chromatography 515(1990)175

Study of rapid reaction kinetics by computerized gas chromatography with stroboscopic sampling 517(1990)175

Sorption of primary *n*-alkanols on Tenax 518(1990)234

High-resolution gas chromatographic resolution of chiral primary alcohols and acids as their diastereomeric 1-phenylethyl amides 519(1990)263

Polymer-inorganic selective adsorbents for gas chromatography produced by graft polymerization 520(1990)21

Retention and heats of adsorption of *n*-alkanes, aromatic hydrocarbons, aliphatic alcohols and ketones on macroporous silicas 520(1990)47

Poly(crown ether) stationary phase for open-tubular capillary column chromatography 521(1990)128

Rapid quantitative analysis of headspace components of green olive brine 521(1990)153

Effect of the configuration of the substituents of derivatized β -cyclodextrin bonded phases on enantioselectivity in normal-phase liquid chromatography 540(1991)113

Application of the UNIFAC method for assessment of retention in reversed-phase liquid chromatography 543(1991)267

Topological indices as structural parameters. Structure-retention relationships for oxyethylene derivatives of alcohols, thioalcohols and alkylamines 547(1991)247

Role of π - π interactions in reversed-phase liquid chromatography 550(1991)267

Structure-retention correlation in liquid chromatography (Review) 550(1991)313

Alcohols, ethoxylated

Static coating of 5 to 50 μ m I.D. capillary columns for open tubular column chromatography 517(1990)503

Alcuronium

Determination of alcuronium in plasma and urine by high-performance liquid chromatography 529(1990)449

Simple high-performance liquid chromatographic method for the analysis of the non-depolarizing neuromuscular blocking drugs in clinical anaesthesia 533(1990)241

Aldehydes

Fractionation of lemon-peel oil by semi-preparative supercritical fluid chromatography 505(1990)237

Interrelation between nucleotide degradation and aldehyde formation in red blood cells. Influence of xanthine oxidase on metabolism: an application of nucleotide and aldehyde analyses by high-performance liquid chromatography 507(1990)311

Analysis of some synthetic insect pheromones by gas-liquid chromatography 509(1990)69

Aldehyde and nucleotide separations by high-performance liquid chromatography. Application to phenylhydrazine-induced damage of erythrocytes and reticulocytes 520(1990)411

Determination of volatile aliphatic aldehydes in the headspace of heated food oils by derivatization with 2-aminoethanethiol 547(1991)291

Aldicarb

Gas chromatographic determination of aldicarb and its metabolites in urine 542(1991)526

Aldicarb sulphone

Gas chromatographic determination of aldicarb and its metabolites in urine 542(1991)526

Aldicarb sulphoxide

Gas chromatographic determination of aldicarb and its metabolites in urine 542(1991)526

Alditols

High-pH ion-exchange separation and electrochemical detection of alditols, carbohydrates and acidic sugars 503(1990)227

Aldononitriles

High-performance liquid chromatographic separation of monosaccharides as their peracetylated ketoximes and aldononitriles 519(1990)228

Aldoses

Gas chromatographic-mass spectrometric separation and characterization of methyl trimethylsilyl monosaccharides obtained from naturally occurring glycosides and carbohydrates 547(1991)299

Alfalfa saponins

High-performance liquid chromatography of alfalfa root saponins 519(1990)109

Alfuzosin

Direct high-performance liquid chromatographic determination of the enantiomers of alfuzosin in plasma on a second-generation α_1 -acid glycoprotein chiral stationary phase 506(1990)601

Alkadienes

High-resolution gas chromatography with liquid crystal glass capillaries. XI. Separation of isomeric C₈ and C₉ hydrocarbons 509(1990)93

Alkali metals

Isotachophoretic separation of alkali and alkaline earth metal cations in water-polyethylene glycol mixtures 502(1990)143

Application of macrocyclic ligands to ion chromatography (Review) 546(1991)73

Temperature programming in macrocycle-based ion chromatography 546(1991)139

Optimization of the procedure for the determination of alkali and alkaline-earth elements in sea water by suppressed ion chromatography 546(1991)259

Alkaline earth metals

Isotachophoretic separation of alkali and alkaline earth metal cations in water-polyethylene glycol mixtures 502(1990)143

Separation of cations using methacrylate-based low-capacity cation exchangers 509(1990)369

Simultaneous ion chromatography of inorganic anions together with some organic anions and alkaline earth metal cations using chelating agents as eluents 516(1990)383

Temperature programming in macrocycle-based ion chromatography 546(1991)139

Optimization of the procedure for the determination of alkali and alkaline-earth elements in sea water by suppressed ion chromatography 546(1991)259

Alkaline phosphatase

Use of metal chelate affinity chromatography for removal of zinc ions from alkaline phosphatase from *Escherichia coli* 522(1990)171

Monosized adsorbents for high-performance affinity chromatography. Application to the purification of calf intestinal alkaline phosphatase and human urine urokinase 540(1991)103

Alkaloids

Fast separation of dihydro ergot alkaloids on an octylsilica column 502(1990)241

Isolation, identification and separation of isomeric truxillines in illicit cocaine 504(1990)391

Extraction of major alkaloids from poppy straw with near-critical mixtures of carbon dioxide and polar modifiers 505(1990)247

Determination of vasicine and related alkaloids by gas chromatography-mass spectrometry 505(1990)424

Gas chromatographic-mass spectrometric analysis of major indole alkaloids of *Catharanthus roseus* 505(1990)429

Use of high-performance liquid chromatography in the pharmaceutical industry 507(1990)141

Neutral, alkaline and difference ultraviolet spectra of secondary metabolites from *Penicillium* and other fungi, and comparisons to published

maxima from gradient high-performance liquid chromatography with diode-array detection 511(1990)195

Chromatographic evaluation of boldine and associated alkaloids in Boldo 511(1990)373

Stepwise gradient in thin-layer chromatography of *Chelidonium* alkaloids 518(1990)273

Solid-phase extraction and fluorimetric detection of benzophenanthridine alkaloids from *Sanguinaria canadensis* cell cultures 519(1990)99

Effective sample preparation method for extracting biologically active compounds from different matrices by a microwave technique 520(1990)257

Gas chromatographic analysis of tropic, benzoic and cinnamic acids, biosynthetic tropane alkaloid precursors 539(1991)232

Determination of isoquinoline alkaloids in *Chelidonium majus* L. by ion-pair high-performance liquid chromatography 542(1991)193

Reversed-phase high-performance liquid chromatographic separation of tertiary and quaternary alkaloids from *Chelidonium majus* L. 543(1991)123

Combination of ion-pair and column switching in high-performance liquid chromatography of tropane alkaloids 547(1991)175

Analysis of some tropane alkaloids in plants by mixed-column high-performance liquid chromatography 547(1991)468

Separation of opium alkaloids by thin-layer chromatography combined with flame ionization detection using the peak pyrolysis method 547(1991)538

Alkanes

Influence of adsorption at the gas-liquid interface on the determination of gas chromatographic retention indices on open-tubular columns coated with cyanosilicones 502(1990)1

Even-odd alternation effect in the regularities of chromatographic retention 509(1990)15

On-line chromatographic analyser for determining the composition and octane number of reforming process effluents 509(1990)47

High-resolution gas chromatography with liquid crystal glass capillaries. XI. Separation of isomeric C₈ and C₉ hydrocarbons 509(1990)93

High-precision sampling of sub-nanogram, low-parts-per-billion solutes from liquids using the dynamic solvent effect 511(1990)271

Separation of alkanes in *Citrus* essential oils by on-line coupled high-performance liquid chromatography-high-resolution gas chromatography 514(1990)317

Solubility parameter treatment for the characterization of the stationary phase in the reversed-phase chromatography of benzene derivatives 515(1990)3

Cryogenic-focusing, ohmically heated on-column trap for capillary gas chromatography 517(1990)67

Enhanced possibilities for identification using series-coupled capillary gas chromatographic columns. II. Retention indices as an identification tool in selectivity tuning 517(1990)77

Lead selenide as a polar adsorbent for gas chromatography 520(1990)15

Retention and heats of adsorption of *n*-alkanes, aromatic hydrocarbons, aliphatic alcohols and ketones on macroporous silicas 520(1990)47

High-resolution gas chromatography with liquid crystal glass capillaries. XII. Separation of isomeric C₁₇-C₁₈ *n*-alkenes 520(1990)75

Thermal desorption of organic pollutants enriched on activated carbon. V. Desorption behaviour and temperature profile 520(1990)131

Refractive index gradient detection of biopolymers separated by high-temperature liquid chromatography 536(1991)289

Application of topographic indices to chromatographic data: calculation of the retention indices of alkanes 540(1991)430

Evaluation of the effect of the cyanopropyl radical on the interaction of the methylene group with silicone stationary phases 547(1991)269

Gas chromatographic system for the identification of halogenated pesticides by retention indices using *n*-alkanes as standards 547(1991)355

Role of π - π interactions in reversed-phase liquid chromatography 550(1991)267

Structure-retention correlation in liquid chromatography (Review) 550(1991)313

Alkanesulphonates

Alkanesulphonates as eluents for the determination of nitrate and nitrite by ion chromatography with direct UV detection 521(1990)53

Alkanoic acids

see Carboxylic acids

Alkanolamines

Improved determination of alkanolamines by liquid chromatography with electrochemical detection 546(1991)381

Alkan-2-ones

Comparison of retention index scales based on alkyl aryl ketones, alkan-2-ones and 1-nitroalkanes for polar drugs on reversed-phase high-performance liquid chromatography 537(1991)51

Alkenes

On-line chromatography with capillary columns and temperature programming. Determination of traces of 2-butenes in 1-butene and analysis of a reformat 509(1990)33

High-resolution gas chromatography with liquid crystal glass capillaries. XI. Separation of isomeric C₈ and C₉ hydrocarbons 509(1990)93

High-resolution gas chromatography with liquid crystal glass capillaries. XII. Separation of isomeric C₁₇-C₁₈ *n*-alkenes 520(1990)75

Relationship between the structure and retention of *n*-alkenes and *n*-alkynes on silicone phases 520(1990)137

Stereoselectivity of α -, β - and γ -cyclodextrin complexation relative to *cis-trans* acyclic alkenes and cyclooctenes under conditions of gas-liquid chromatography 547(1991)283

Selectivity of carbon packing materials in comparison with octadecylsilyl- and pyrenylethylsilylsilica gels in reversed-phase liquid chromatography 549(1991)29

Alkenoic acids

Gas chromatographic analysis and gas chromatographic-mass spectrometric

identification of components in the cyclohexane-extractable fraction from contaminated sediment samples 508(1990)159

Alkylamines

Analysis of anthocyanins in red wines by high-performance liquid chromatography using butylamines in the mobile phase 504(1990)207

Simple procedure involving derivatisation and thin-layer chromatography for the estimation of trace levels of halogenated alkylamines and their hydrolysis products in drug substances and formulations 543(1991)211

Topological indices as structural parameters. Structure-retention relationships for oxyethylene derivatives of alcohols, thioalcohols and alkylamines 547(1991)247

Selectivity of carbon packing materials in comparison with octadecylsilyl- and pyrenylethylsilylsilica gels in reversed-phase liquid chromatography 549(1991)29

α -Alkyl- α -amino acids

Gas chromatographic separation of diastereomeric esters of α -alkyl- α -amino acids on dimethylpolysiloxane 521(1990)109

N-Alkylanilines

Comparison of the selectivity of di(methacryloyloxymethyl)naphthalene-divinylbenzene copolymers in reversed-phase high-performance liquid chromatography 549(1991)77

Alkyl aryl ethers

Comparison of the selectivity of di(methacryloyloxymethyl)naphthalene-divinylbenzene copolymers in reversed-phase high-performance liquid chromatography 549(1991)77

Alkyl aryl ketones

Comparison of retention index scales based on alkyl aryl ketones, alkan-2-ones and 1-nitroalkanes for polar drugs on reversed-phase high-performance liquid chromatography 537(1991)51

Comparison of the selectivity of di(methacryloyloxymethyl)naphthalene-divinylbenzene copolymers in reversed-phase high-performance liquid chromatography 549(1991)77

Alkybenzenes

Comparison of stationary phases for packed-column supercritical fluid chromatography 506(1990)563

Solubility parameter treatment for the characterization of the stationary phase in the reversed-phase chromatography of benzene derivatives 515(1990)3

Enhanced possibilities for identification using series-coupled capillary gas chromatographic columns. II. Retention indices as an identification tool in selectivity tuning 517(1990)77

Comparison of the selectivity of di(methacryloyloxymethyl)naphthalene-divinylbenzene copolymers in reversed-phase high-performance liquid chromatography 549(1991)77

Improved method for prediction of gas chromatographic retention indices of C₉-C₁₂ alkybenzenes 549(1991)325

Structure-retention correlation in liquid chromatography (Review) 550(1991)313

Alkybenzenesulphonates

Quantitative extraction of linear alkybenzenesulfonates using supercritical carbon dioxide and a simple device for adding modifiers 541(1991)185

Alky benzoates

Comparison of the selectivity of di(methacryloyloxymethyl)naphthalene-divinylbenzene copolymers in reversed-phase high-performance liquid chromatography 549(1991)77

n-Alky bis(trifluoromethyl)phosphine sulphides

Use of M-series retention index standards in the identification of trichothecenes by electron impact mass spectrometry 513(1990)31

Alky borate esters

Gas chromatography of homologous esters. XXXIV. Alky borate and boronate esters 550(1991)155

Alky boronate esters

Gas chromatography of homologous esters. XXXIV. Alky borate and boronate esters 550(1991)155

Alkyglyceryl ethers, unsubstituted

Rapid determination of unsubstituted alkyglyceryl ethers by gas chromatography-mass spectrometry 530(1990)94

O-Alky glycosides

Supercritical fluid chromatography with light-scattering detection. I. Preliminary results of the analysis of polar compounds with packed columns 505(1990)191

Alky ketones

Computer simulation of isocratic retentions of alkyketones using gradient data 550(1991)77

Alky nitrates

Determination of peroxyacetyl nitrate, peroxypropionyl nitrate and alky nitrates of atmospheric importance using capillary columns 541(1991)99

Alkyphenols

Displacement chromatography on packed capillary columns 502(1990)11

Structure-retention correlations of isomeric alkyphenols in gas-liquid chromatography 509(1990)3

Chemically modified polymeric resins for high-performance liquid chromatography 522(1990)95

Analysis of biomass pyrolysis liquids: separation and characterization of phenols 542(1991)263

Alkyphenols, ethoxylated

Comparison of various stationary phases for normal-phase high-performance liquid chromatography of ethoxylated alkyphenols 504(1990)297

Alkyphenols, sulphurized

Separation and identification of sulfurized alkyphenols in oil by high-performance liquid chromatography with evaporative light scattering and mass spectrometric detection 549(1991)247

Alkyphenones

Ion chromatography in the manufacture of multilayer circuit boards 546(1991)369

1-Alky-2',6'-pipecolxyliidides

Influence of uncharged mobile phase additives on retention and enantioselectivity of chiral drugs using an α_1 -acid glycoprotein column 519(1990)271

Alkylquinazolones

Correlation between structure and gas chromatographic behaviour of nitrogen-containing heterocyclic compounds. II. Alkyl substitution of quinazolone derivatives 537(1991)371

Alkylsulphates

Separation and detection of non-chromophoric, anionic surfactants 546(1991)395

Alkylsulphonates

Separation and detection of non-chromophoric, anionic surfactants 546(1991)395

Optimization of inorganic capillary electrophoresis for the analysis of anionic solutes in real samples 546(1991)411

***n*-Alkynes**

Relationship between the structure and retention of *n*-alkenes and *n*-alkynes on silicone phases 520(1990)137

Allergens

Ion-exchange high-performance liquid chromatographic isolation of the major allergen of *Parietaria* pollen extract 512(1990)115

Immobilized metal ion affinity chromatography for the purification of *Fel d I*, a cat major allergen, from a house-dust extract 512(1990)177

Allergenic fragments in *Parietaria judaica* pollen extract 542(1991)337

Purification of *Phleum pratense* pollen extract by immunoaffinity chromatography and high-performance ion-exchange chromatography 548(1991)229

Allethrolone

Elution orders in the separation of enantiomers by high-performance liquid chromatography with some chiral stationary phases 535(1990)213

Allopurinol

Simultaneous determination of allopurinol and oxypurinol by liquid chromatography using immobilized xanthine oxidase with electrochemical detection 530(1990)65

Aloenin

Gas chromatographic and mass spectral determination of aloenin in skin-care cosmetics 509(1990)377

Alprazolam

Gas chromatographic analysis of alprazolam in plasma: replicability, stability and specificity 534(1990)202

Alprenolol

Separation of the enantiomers of β -receptor blocking agents and other cationic drugs using a CHIRAL-AGP® column. Binding properties and characterization of immobilized α_1 -acid glycoprotein 519(1990)285

Reversed-phase high-performance liquid chromatography–thermospray mass spectrometry of alprenolol and its ketoxime analogues 541(1991)474

Alprenolol oxime

Reversed-phase high-performance liquid chromatography–thermospray mass spectrometry of alprenolol and its ketoxime analogues 541(1991)474

Alterporriol D

High-performance liquid chromatographic determination of alterporriol D and E in fermentation of *Alternaria porri* (Ellis) Ciferri 503(1990)282

Alterporriol E

High-performance liquid chromatographic determination of alterporriol D and E in fermentation of *Alternaria porri* (Ellis) Ciferri 503(1990)282

Altersolanol A

High-performance liquid chromatographic determination of alterporriol D and E in fermentation of *Alternaria porri* (Ellis) Ciferri 503(1990)282

Altertoxins

Selective determination of altertoxins by high-performance liquid chromatography with electrochemical detection with dual "in-series" electrodes 540(1991)376

Althiazide

(*R*)- and (*S*)-Naphthylethylcarbamate-substituted β -cyclodextrin bonded stationary phases for the reversed-phase liquid chromatographic separation of enantiomers 539(1991)83

Alumina

High-performance liquid chromatographic determination of humic acid in sodium aluminate solution 502(1990)443

Gas chromatographic analysis of light hydrocarbons using aluminium oxide micro-packed columns 509(1990)59

Alumina, octadecyl-bonded

Comparison of octadecyl-bonded alumina and silica for reversed-phase high-performance liquid chromatography 505(1990)307

Aluminium

Studies on the separation of Al^{III}, Co^{III}, Cr^{III} and Fe^{III} complexes with acetylacetone by reversed-phase high-performance liquid chromatography 502(1990)221

Aluminum ion mediated stabilization of silica-based anion-exchange packings to caustic regenerants 503(1990)385

Amantadine

Design of a photoionization detector for high-performance liquid chromatography using an automated liquid-to-vapor phase interface and application to phenobarbital in an animal feed and to amantadine 505(1990)319

Amaranth

Isotachopheresis in open-tubular fused-silica capillaries. Impact of electroosmosis on zone formation and displacement 516(1990)211

Isotachopheresis of some synthetic colorants in foods 545(1991)413

Ambroxol

Determination of ambroxol in biological material by gas chromatography with electron-capture detection 530(1990)141

Amifloxacin

Determination of amifloxacin and two of its principal metabolites in plasma and urine by high-performance liquid chromatography using automated column switching 530(1990)407

Amifloxacin, piperazinyl-N-desmethyl metabolite

Determination of amifloxacin and two of its principal metabolites in plasma and urine by high-performance liquid chromatography using automated column switching 530(1990)407

Amifloxacin, piperazinyl-N-oxide metabolite

Determination of amifloxacin and two of its principal metabolites in plasma and urine by high-performance liquid chromatography using automated column switching 530(1990)407

Amiloride

High-performance liquid chromatographic determination of amiloride and its analogues in rat plasma 529(1990)201

Amineptine

Determination of amineptine and its main metabolite in plasma by high-performance liquid chromatography after solid-phase extraction 532(1990)351

Amines

see also Catecholamines

Acylation effects on chiral recognition of racemic amines and alcohols by new polar and non-polar cyclodextrin derivative gas chromatographic phases 502(1990)154

Phthalimidylbenzenesulphonyl chlorides as fluorescence labelling reagents for amino acids in high-performance liquid chromatography 502(1990)178

Determination of primary and secondary aliphatic amines in the environment as sulphonamide derivatives by gas chromatography-mass spectrometry 503(1990)369

High-performance liquid chromatography separation media based on functional polymers containing phenolic hydroxyls 504(1990)97

2,4-Dinitrophenylpyridium chloride, a novel and versatile reagent for the detection of amino acids, primary and secondary amines, thiols, thiolactones and carboxylic acids during planar chromatography 504(1990)456

Effect of polystyrene coating on pore, structural and chromatographic properties of silica packings 506(1990)391

Determination of aliphatic amines by gas and high-performance liquid chromatography 507(1990)241

Simultaneous determination of nitrites, nitrates and amines by ion-interaction reversed-phase high-performance liquid chromatography. Application to lagoon water 509(1990)147

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

Naphthalene- and anthracene-2,3-dialdehyde as precolumn labelling reagents for primary amines using reversed- and normal-phase liquid chromatography with peroxyoxalate chemiluminescence detection 511(1990)155

Chromatographic determination of amines in biological fluids with special reference to the biological monitoring of isocyanates and amines. IV. Determination of 1,6-hexamethylenediamine in human urine using capillary gas chromatography and selective ion monitoring 516(1990)405

Capillary supercritical fluid chromatography of aliphatic amines. Studies on the selectivity and symmetry with three different columns using carbon dioxide or nitrous oxide as mobile phase 516(1990)415

Analysis of amine metabolites by high-performance liquid chromatography on silica gel with a non-aqueous ionic eluent 532(1990)405

Automated precolumn derivatization of amino acids, small peptides, brain amines and drugs with primary amino groups for reversed-phase high-performance liquid chromatography using naphthalenedialdehyde as the fluorogenic label 533(1990)171

Studies on system peaks in ion-pair adsorption chromatography. IV. Optimization of peak compression 535(1990)93

Solid-phase reagent containing the 3,5-dinitrophenyl tag for the improved derivatization of chiral and achiral amines, amino alcohols and amino acids in high-performance liquid chromatography with ultraviolet detection 537(1991)123

Determination of primary and secondary amines in foodstuffs using gas chromatography and chemiluminescence detection with a modified thermal energy analyser 539(1991)141

High-performance liquid chromatography of biogenic amines in the corpus cardiacum of the American cockroach, *Periplaneta americana* 539(1991)193

Effect of the configuration of the substituents of derivatized β -cyclodextrin bonded phases on enantioselectivity in normal-phase liquid chromatography 540(1991)113

Détection spécifique par chromatographie gazeuse-spectrométrie de masse des amines sympathomimétiques urinaires dans le cadre des contrôles antidopage 541(1991)109

Factors influencing the retention of rare earth-tetraphenylporphine complexes in reversed-phase high-performance liquid chromatography 542(1991)351

Enantiomeric separation of amines using N-benzoyloxycarbonylglycyl-L-proline as chiral additive and porous graphitic carbon as solid phase 543(1991)287

High-performance liquid chromatographic determination of low levels of primary and secondary amines in aqueous solutions including 2-amino-2-methylpropanol by pre-column derivatisation to sulphonamides 547(1991)447

Experimental design for the optimization of the separation of aliphatic amines by ion chromatography 549(1991)159

Amino acid amides

Molecular recognition in synthetic polymers: preparation of chiral stationary phases by molecular imprinting of amino acid amides 513(1990)167

Amino acid esters

Elution orders in the separation of enantiomers by high-performance liquid chromatography with some chiral stationary phases 535(1990)213

Effect of the configuration of the substituents of derivatized β -cyclodextrin bonded phases on enantioselectivity in normal-phase liquid chromatography 540(1991)113

Amino acids

Detection and quantification of capillary electrophoresis zones by fluorescence microscopy 502(1990)247

Variance contributions to band spread in capillary zone electrophoresis 504(1990)1

2,4-Dinitrophenylpyridium chloride, a novel and versatile reagent for the detection of amino acids, primary and secondary amines, thiols, thiolactones and carboxylic acids during planar chromatography 504(1990)456

Direct and reverse flow-through heterogeneous scintillation counting of radiolabelled amino acids

- using post-column solvent segmentation 508(1990)301
- Increasing the purity of polyuronic sorbents 509(1990)239
- Behaviour of amino acids in gel permeation chromatography. Correlation with the effect of Hofmeister solutes on the conformational stability of macromolecules 510(1990)41
- Simultaneous optimization of variables influencing selectivity and elution strength in micellar liquid chromatography. Effect of organic modifier and micelle concentration 511(1990)17
- Ligand-exchange chromatography of α -trifluoromethyl- α -amino acids on chiral sorbents 511(1990)115
- Characterization of apolipoproteins from chicken plasma 512(1990)203
- High-performance liquid chromatographic investigations on the cleavage kinetics of side-chain-protected arginine derivatives with a sophisticated post-column reaction detector 512(1990)249
- Identification of peptides containing aromatic amino acids, cysteine, iodotyrosine and iodothyronine by high-performance liquid chromatography with photodiode-array detection 512(1990)255
- High-performance liquid chromatographic separation and partial characterization of the α - and β -chains of Alaskan sockeye salmon hemoglobin 512(1990)291
- Separation of enantiomers using polymeric copper–amine–cellulose columns 513(1990)370
- Investigation of parameters in the separation of amino acid enantiomers by supercritical fluid chromatography 514(1990)253
- Separation of peptide diastereomers by reversed-phase high-performance liquid chromatography and its applications. IV. New derivatization reagent for the enantiomeric analysis of α - and β -amino acids 515(1990)475
- Free solution capillary electrophoresis and micellar electrokinetic resolution of amino acid enantiomers and peptide isomers with L- and D-Marfey's reagents 516(1990)241
- Separation and partial characterization of Maillard reaction products by capillary zone electrophoresis 516(1990)287
- Enantiomeric resolution on molecularly imprinted polymers prepared with only non-covalent and non-ionic interactions 516(1990)313
- Enantiomeric resolution of amino acid derivatives on molecularly imprinted polymers as monitored by potentiometric measurements 516(1990)323
- Simultaneous liquid chromatographic determination of methionine hydroxy analogue and DL-methionine in feed formulations 516(1990)375
- Direct separation of amino acid enantiomers using a chiral crown ether stationary phase. Application to 2-amino- ω -phosphonoalkanoic acids 519(1990)69
- Study of the characteristics and analytical application of a capillary chromatograph with an electrochemical detector 520(1990)307
- Gas-phase synthesis, properties and some applications of acylamide stationary phases for high-performance liquid chromatography 521(1990)29
- Resolution of free aromatic amino acid enantiomers by host–guest complexation using reversed-phase liquid chromatography 521(1990)134
- Reversed-phase chromatography of *Escherichia coli* ribosomal proteins. Correlation of retention time with chain length and hydrophobicity 522(1990)163
- Fluorescence assay for small peptides and amino acids: high-performance liquid chromatographic determination of selected substrates using activated *S*-flunoxapfen as a chiral derivatizing agent 528(1990)55
- High-performance liquid chromatography of amino acids, peptides and proteins. CVII. Analysis of group retention contributions for peptides separated with a range of mobile and stationary phases by reversed-phase high-performance liquid chromatography 536(1991)165
- Localization of amino acids on thin-layer chromatograms with acetylacetone–formaldehyde reagent 537(1991)494

High-performance liquid chromatographic analysis of the unusual pathway of oxidation of L-arginine to citrulline and nitric oxide in mammalian cells 539(1991)433

Direct enantiomeric separation of β -amino acids and β -amino alcohols by ligand-exchange chromatography 540(1991)169

Immobilization of chiral phases for enantiomer separations in supercritical fluid and gas chromatography 540(1991)217

Equilibria of biomolecules on ion-exchange adsorbents 542(1991)19

Efficiency in chiral high-performance ligand-exchange chromatography. Influence of the complexation process, flow-rate and capacity factor 542(1991)221

Application of macrocyclic ligands to ion chromatography (Review) 546(1991)73

Thin-layer chromatographic method for the simultaneous determination of physiological aromatic amino acids 547(1991)531

Amino acids, 1-aminoadamantane derivatives

Fully automated amino acid analysis for protein and peptide hydrolysates by precolumn derivatization with 9-fluorenyl methylchloroformate and 1-aminoadamantane 507(1990)67

Amino acids, N,N-diethyl-2,4-dinitro-5-fluoroaniline derivatives

Serum amino acid analysis with pre-column derivatization: comparison of the *o*-phthalaldehyde and N,N-diethyl-2,4-dinitro-5-fluoroaniline methods 534(1990)23

Amino acids, DNB derivatives

Effect of the configuration of the substituents of derivatized β -cyclodextrin bonded phases on enantioselectivity in normal-phase liquid chromatography 540(1991)113

Enantiomeric resolution of amino acid derivatives by high-performance liquid chromatography on chiral stationary phases derived from L-proline 547(1991)31

Amino acids, DNP derivatives

Improved high-speed counter-current chromatography with three multilayer coils

connected in series. IV. Evaluation of preparative capability with large multilayer coils 538(1991)81

Systematic search for suitable two-phase solvent systems for high-speed counter-current chromatography 538(1991)99

Liquid chromatographic separation of the enantiomers of dinitrophenyl amino acids using a β -cyclodextrin-bonded stationary phase 543(1991)105

Amino acids, Dns derivatives

Automated amino acid analysis using precolumn derivatization with dansylchloride and reversed-phase high-performance liquid chromatography 504(1990)129

Displacement chromatography on cyclodextrin-silicas. III. Enantiomer separations 506(1990)481

Isocratic hydrophobic interaction chromatography of dansyl amino acids. Correlation of hydrophobicity and retention parameters 511(1990)123

Porous glass sheets for use in thin-layer chromatography 515(1990)205

The effect of $^2\text{H}_2\text{O}$ and an ion-pairing agent on the liquid chromatographic separation of dansylated amino acids 549(1991)404

Amino acids, fluorescein isothiocyanate derivatives

Isotachopheresis as an on-line concentration pretreatment technique in capillary electrophoresis 538(1991)393

Amino acids, FMOc derivatives

Fully automated amino acid analysis for protein and peptide hydrolysates by precolumn derivatization with 9-fluorenyl methylchloroformate and 1-aminoadamantane 507(1990)67

Amino acid analysis by high-performance liquid chromatography with methanesulfonic acid hydrolysis and 9-fluorenylmethylchloroformate derivatization 514(1990)227

Amino acid analysis using derivatisation with 9-fluorenylmethyl chloroformate and reversed-phase high-performance liquid chromatography 540(1991)177

Amino acids, NDA derivatives

Automated precolumn derivatization of amino acids, small peptides, brain amines and drugs

with primary amino groups for reversed-phase high-performance liquid chromatography using naphthalenedialdehyde as the fluorogenic label 533(1990)171

Amino acids, 4-nitrophenylisothiocyanate derivatives

Analysis of amino acids by liquid chromatography after pre-column derivatization with 4-nitrophenylisothiocyanate 512(1990)283

Amino acids, OPA derivatives

Automated precolumn derivatization of amino acids with *ortho*-phthalaldehyde using a hollow-fibre membrane reactor 502(1990)317

Separation of free amino acids by reversed-phase ion-pair chromatography with column switching and isocratic elution 507(1990)95

Simultaneous high-performance liquid chromatographic determination of amino acids in a dried blood spot as a neonatal screening test 511(1990)131

Applications of high-performance liquid chromatography in bacteriology. I.

Determination of metabolites (Review) 515(1990)415

Serum amino acid analysis with pre-column derivatization: comparison of the *o*-phthalaldehyde and N,N-diethyl-2,4-dinitro-5-fluoroaniline methods 534(1990)23

Isotachopheresis as an on-line concentration pretreatment technique in capillary electrophoresis 538(1991)393

Amino acids, N-pentafluoropropionyl alkyl esters

Gas chromatographic separation of stereoisomeric esters of α -amino acids and α -alkyl- α -amino acids on chiral stationary phases 542(1991)161

Amino acids, phenylthiocarbonyl derivatives

Characterization of a reversed-phase high-performance liquid chromatographic system for the determination of blood amino acids 507(1990)85

Amino acids, phisyl derivatives

Phthalimidylbenzenesulphonyl chlorides as fluorescence labelling reagents for amino acids in high-performance liquid chromatography 502(1990)178

Amino acids, PTC derivatives

High-performance liquid chromatographic determination of selected amino acids in rat brain by precolumn derivatization with phenylisothiocyanate 503(1990)177

Amino acids analysis of physiological fluids by high-performance liquid chromatography with phenylisothiocyanate derivatization and comparison with ion-exchange chromatography 528(1990)9

Measurement of plasma and urine amino acids by high-performance liquid chromatography with electrochemical detection using phenylisothiocyanate derivatization 528(1990)293

Time-saving method for the reversed-phase high-performance liquid chromatography of phenylthiocarbonylamino acid derivatives of free amino acids in plasma 529(1990)258

Automated phenylthiocarbonyl amino acid analysis of carboxypeptidase/aminopeptidase digests and acid hydrolysates 537(1991)153

Amino acids, PTH derivatives

Enantiomeric resolution by micellar electrokinetic chromatography with chiral surfactants 515(1990)221

Application of preparative high-performance liquid chromatography to the purification of a fetal ovine insulin-like growth factor II: N-terminal sequence determinations using two different carriers 533(1990)35

Effect of urea addition in micellar electrokinetic chromatography 545(1991)359

Amino acids, sulphur-containing

High-performance liquid chromatography of sulfur-containing amino acids and related compounds with amperometric detection at a modified electrode 543(1991)226

Amino acids, TFA isobutyl esters

Gas chromatography of tryptophan together with other amino acids in hydrochloric acid hydrolysates 520(1990)193

Aminoacyl-tRNA synthetases

Purification of mammalian tyrosyl-tRNA synthetase by high-performance liquid chromatography 503(1990)277

δ -L- α -Aminoacidipyl-L-cysteiny-D-valine

Analysis of δ -L- α -aminoacidipyl-L-cysteiny-D-valine by ion chromatography and pulsed amperometric detection 509(1990)347

Amino alcohols

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

Chromatographic resolution of 1,2-amino alcohols on a chiral stationary phase containing N,N'-(3,5-dinitrobenzoyl)-*trans*-1,2-diaminocyclohexane. Theoretical and practical aspects 539(1991)25

Direct enantiomeric separation of β -amino acids and β -amino alcohols by ligand-exchange chromatography 540(1991)169

Enantiomeric separation of amines using N-benzoyloxycarbonylglycyl-L-proline as chiral additive and porous graphitic carbon as solid phase 543(1991)287

Aminobenzene

Chromatograms of second-order reactions on chromatographic columns 520(1990)109

Aminobenzoic acid

Reversed-phase liquid chromatography of polar benzene derivatives on poly(vinylbenzo-18-crown-6)-immobilized silica as a stationary phase 522(1990)107

Impact of experimental parameters on the resolution of positional isomers of aminobenzoic acid in capillary zone electrophoresis 542(1991)173

2-Aminobutan-1-ol

Study of the stereochemistry of ethambutol using chiral liquid chromatography and synthesis 522(1990)195

 γ -Aminobutyric acid

High-performance liquid chromatographic determination of selected amino acids in rat brain by precolumn derivatization with phenylisothiocyanate 503(1990)177

Enantiomeric resolution by micellar electrokinetic chromatography with chiral surfactants 515(1990)221

Determination of γ -aminobutyric acid in human cerebrospinal fluid by isocratic high-performance liquid chromatography 529(1990)417

Rapid high-performance liquid chromatographic determination of γ -aminobutyric acid and some other amino acids: application to rat brain 532(1990)438

Aminocarboline

Simultaneous determination of amino- α -carboline and amino- γ -carboline in cigarette smoke condensate by high-performance liquid chromatography 529(1990)125

4-Amino-3-(4-chlorophenyl)butyric acid

Preparative liquid chromatographic separation of isomers of 4-amino-3-(4-chlorophenyl)butyric acid 542(1991)502

Aminocyanoacrylates

Separation and interconversion of 3-amino-2-cyanoacrylates by high-performance liquid chromatography 507(1990)409

(2S,3S)-2-Amino-3-(3,4-dihydroxyphenylalanine)-4-pentynoic acid

Chromatographic separation of β -substituted 3-(3,4-dihydroxyphenyl)alanine derivatives 523(1990)300

2-Aminoethanethiol

Determination of volatile aliphatic aldehydes in the headspace of heated food oils by derivatization with 2-aminoethanethiol 547(1991)291

S-(2-Aminoethyl)-L-cysteine

Identification of ferrioxamines by high-performance liquid chromatography and diode-array detection 513(1990)255

2-Aminofluorene

Release of 2-aminofluorene from N-(deoxyguanosin-8-yl)-2-aminofluorene by hydrazinolysis 538(1991)447

Aminoglycosides

High-performance liquid chromatographic determination of isepamicin in plasma, urine and dialysate 526(1990)487

Determination of tobramycin using high-performance liquid chromatography with pulsed amperometric detection 527(1990)244

2-Aminoheptane

Resolution of (\pm)-2-aminoheptane enantiomers by inductive adsorption chromatography 540(1991)157

4-Amino-1-hydroxybutane-1,1-bisphosphonic acid

Determination of 4-amino-1-hydroxybutane-1,1-bisphosphonic acid in urine by automated pre-column derivatization with 2,3-naphthalene dicarboxaldehyde and high-performance liquid chromatography with fluorescence detection 534(1990)139

3-Amino-1-hydroxypropylidene-1,1-bisphosphonate

Determination of disodium 3-amino-1-hydroxypropylidene-1,1-bisphosphonate pentahydrate 545(1991)421

2-Amino-9-(4-imidazolyl)-7-azananoic acid

o-Phthalaldehyde post-column derivatization for the determination of gizzerosine in fish meal by high-performance liquid chromatography 515(1990)527

 β -Aminoisobutyric acid

Rapid determination of β -aminoisobutyric acid by reversed-phase high-performance liquid chromatography 528(1990)35

 δ -Aminolevulinic acid

Micro assay for urinary δ -aminolevulinic acid and porphobilinogen by high-performance liquid chromatography with pre-column derivatization 527(1990)134

2-Amino-4-methoxy-6-methyl-1,3,5-triazine

Characterization of the thermal decomposition products of the sulfonylurea herbicide chlorsulfuron 505(1990)395

(Aminomethyl)phosphonic acid

High-performance liquid chromatographic determination of the herbicide glyphosate and its metabolite (aminomethyl)phosphonic acid and their extraction from cyanobacteria 502(1990)201

Determination of glyphosate and its major metabolite aminomethylphosphonic acid by high-performance liquid chromatography after derivatization with *p*-toluenesulphonyl chloride 540(1991)411

2-Amino-2-methylpropanol

High-performance liquid chromatographic determination of low levels of primary and secondary amines in aqueous solutions including

2-amino-2-methylpropanol by pre-column derivatization to sulphonamides 547(1991)447

8-Amino-1-naphthol-3,6-disulphonic acid

Separation and identification of impurities in the dye intermediate 8-amino-1-naphthol-3,6-disulphonic acid (H-acid) by high-performance liquid chromatography 514(1990)330

6-Aminonicotinamide

Capillary tube isotachopheric separation of niacin derivatives 521(1990)158

Aminopeptidase M

Isolation and partial characterization of angiotensinase A and aminopeptidase M from urine and human kidney by lectin affinity chromatography and high-performance liquid chromatography 521(1990)279

Aminophenols

Contributions to the calculation of retention data in ion-pair chromatography 508(1990)309

Determination of phenol, *m*-, *o*- and *p*-cresol, *p*-aminophenol and *p*-nitrophenol in urine by high-performance liquid chromatography 535(1990)311

2-Amino- ω -phosphonoalkanoic acid

Direct separation of amino acid enantiomers using a chiral crown ether stationary phase. Application to 2-amino- ω -phosphonoalkanoic acids 519(1990)69

Aminopyridine

Application of sodium lauryl sulphate ion-pairing reversed-phase high-performance liquid chromatography in the separation of some isomeric and other closely related basic compounds in pharmaceutical analysis 520(1990)367

Aminosaccharides

Determination of saccharides in biological materials by high-performance anion-exchange chromatography with pulsed amperometric detection 546(1991)297

5-Aminosalicyclic acid

Investigation of the stability of 5-aminosalicylic acid in tablets and suppositories by high-performance liquid chromatography 509(1990)195

Determination of 5-aminosalicylic acid and related compounds in raw materials and

pharmaceutical dosage forms by high-performance liquid chromatography 540(1991)416

Amino sugars

Simultaneous determination of neutral and amino sugars in biological materials 513(1990)71

Identification of monosaccharides by high-performance liquid chromatography using methanolysis and a light-scattering detector 514(1990)70

Amitriptyline

Controlling the retention of clopenthixol and other basic drug substances by reversed-phase ion-pair chromatography on bonded-phase materials using two counter-ions of opposite charge 523(1990)217

Rapid and simple high-performance liquid chromatographic determination of tricyclic antidepressants for routine and emergency serum analysis 536(1991)319

Separation of seven tricyclic antidepressants using capillary electrophoresis 549(1991)375

Ammonium acetate

Evaluation of ammonium acetate as a volatile buffer for high-performance hydrophobic-interaction chromatography 515(1990)279

Amoxicillin

Determination of amoxicillin in plasma by high-performance liquid chromatography with fluorescence detection after on-line oxidation 506(1990)417

AMP

Measurement of adenine nucleotide levels with an adenine analyser as an index of freshness of porgy 528(1990)305

cAMP

see Cyclic adenosine monophosphate

Amphetamines

Detection and quantification of capillary electrophoresis zones by fluorescence microscopy 502(1990)247

Liquid chromatographic evaluation of chiral derivatizing reagents for the resolution of amine and alcohol enantiomers 508(1990)220

Naphthalene- and anthracene-2,3-dialdehyde as precolumn labelling reagents for primary amines

using reversed- and normal-phase liquid chromatography with peroxyoxalate chemiluminescence detection 511(1990)155

Separation of amphetamines by supercritical fluid chromatography 515(1990)385

Determination of methamphetamine, amphetamine and piperidine in human urine by high-performance liquid chromatography with chemiluminescence detection 515(1990)459

Spacer-displacement and carrier spacer-displacement thin-layer chromatography 520(1990)287

Assay of the optical isomers of methamphetamine and amphetamine in rat urine using high-performance liquid chromatography with chiral cellulose-based columns 525(1990)203

Determination of the amine metabolites of selegiline in biological fluids by capillary gas chromatography 527(1990)163

Solid-phase reagent containing the 3,5-dinitrophenyl tag for the improved derivatization of chiral and achiral amines, amino alcohols and amino acids in high-performance liquid chromatography with ultraviolet detection 537(1991)123

Détection spécifique par chromatographie gazeuse-spectrométrie de masse des amines sympathomimétiques urinaires dans le cadre des contrôles antidopage 541(1991)109

Standardization of a multi-wavelength UV detector for liquid chromatography-based toxicological analysis 550(1991)449

Ampicillin

High-performance liquid chromatographic assay of ampicillin and its prodrug lenampicillin 507(1990)235

Simultaneous determination of ampicillin and sulbactam by liquid chromatography: post-column reaction with sodium hydroxide and sodium hypochlorite using an active hollow-fibre membrane reactor 532(1990)87

Amsulosin

Sensitive method for the determination of amsulosin in human plasma using high-performance liquid chromatography with fluorescence detection 533(1990)291

α -Amylase

Gel permeation chromatography for the determination of the molecular mass distribution of some industrial proteins 509(1990)227

Amylase-pullulanase

Purification of a amylase-pullulanase bifunctional enzyme by high-performance size-exclusion and hydrophobic-interaction chromatography 512(1990)131

Amyloid A

Purification of human serum amyloid A by anion-exchange fast protein liquid chromatography 526(1990)203

Amylopectin

Gel permeation chromatographic determination of starches using alkaline eluents 536(1991)251

Amylose

Gel permeation chromatographic determination of starches using alkaline eluents 536(1991)251

Anaesthetics

High-performance liquid chromatographic method for the direct determination of the volatile anaesthetics halothane, isoflurane and enflurane in water and in physiological buffer solutions 518(1990)250

Analgesics, non-steroidal anti-inflammatory

Determination of non-steroidal anti-inflammatory analgesics in solid dosage forms by high-performance liquid chromatography on underivatized silica with aqueous mobile phase 504(1990)381

Ancymidol

(*R*)- and (*S*)-Naphthylethylcarbamate-substituted β -cyclodextrin bonded stationary phases for the reversed-phase liquid chromatographic separation of enantiomers 539(1991)83

Androgen-binding protein

Dihydrotestosterone binding capacity of androgen-binding protein in tissue extract using high-performance size exclusion chromatography 526(1990)186

Androstane

Comparison of the liquid chromatographic behaviour of selected steroid isomers using different reversed-phase materials and mobile phase compositions 537(1991)73

Androstenedione

Simultaneous measurements of endogenous and deuterium-labelled tracer variants of androstenedione and testosterone by capillary gas chromatography-mass spectrometry 525(1990)15

Use of radio-gas chromatography and tritium label to optimize derivatization procedures 530(1990)1

Angiotensinase A

Isolation and partial characterization of angiotensinase A and aminopeptidase M from urine and human kidney by lectin affinity chromatography and high-performance liquid chromatography 521(1990)279

Angiotensins

Analysis of amino acids by liquid chromatography after pre-column derivatization with 4-nitrophenylisothiocyanate 512(1990)283

Capillary electrophoretic separations of peptides using micelle-forming compounds and cyclodextrins as additives 519(1990)189

Reversed-phase ion-pair liquid chromatography of the angiotensins 536(1991)357

High-performance liquid chromatographic determination of peptides in biological fluids by automated pre-column fluorescence derivatization with fluorescamine 548(1991)319

Anhydrobenzoic acid

Investigation of interfering products in the high-performance liquid chromatographic determination of polyamines as benzoyl derivatives 518(1990)264

Anilines

Comparison of octadecyl-bonded alumina and silica for reversed-phase high-performance liquid chromatography 505(1990)307

Examination of organic trace contamination and thermo-oxidative deterioration of ϵ -caprolactam by high-performance liquid chromatography 508(1990)149

Comparison of sorbents for solid-phase extraction of polar compounds from water 509(1990)123

Characterization of an adamantyl-modified silica used as a stationary phase in high-performance liquid chromatography 514(1990)11

Determination of aromatic amines at trace levels by ion interaction reagent reversed-phase high-performance liquid chromatography. Analysis of hair dyes and other water-soluble dyes 518(1990)149

Rapid and sensitive determination of phenylurea herbicides in water in the presence of their anilines by extraction with a Carbo-pack cartridge followed by liquid chromatography 541(1991)365

Fluoropolymers and fluorocarbon bonded phases as column packings for liquid chromatography (Review) 544(1991)187

Chromatographic characterization of silica-based reversed phases (Review) 544(1991)371

Anionic detergents

Ion chromatography in the manufacture of multilayer circuit boards 546(1991)369

Anions

Influence of dissociation equilibria on the elution behaviour of the sample anion in anion chromatography 508(1990)51

Analysis of atmospheric precipitation by reversed-phase ion-pair chromatography 514(1990)362

Novel silica-based strong anion exchanger for single-column ion chromatography 515(1990)49

Reversed-phase ion-pair chromatography with indirect photometric detection of inorganic anions from residues of low explosives 517(1990)305

Ion-exchange separation of inorganic anions on a HEMA 1000 Q-L column 520(1990)349

Anion-exchange chromatography on selected silica-based reversed-phase high-performance liquid chromatographic columns 544(1991)99

Computer optimization in ion chromatography. II. A systematic evaluation of linear retention models for anions 546(1991)37

Application of macrocyclic ligands to ion chromatography (Review) 546(1991)73

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Recent advances in the simultaneous determination of anions and silica in high-purity water 546(1991)209

Environmental applications of ion chromatography in China 546(1991)317

Use of ion chromatography in agricultural research (Review) 546(1991)387

Low-capacity latex-coated resins for anion chromatography 547(1991)11

Simultaneous analysis of anions and cations by single-column ion chromatography 549(1991)257

Anions, inorganic
see Inorganic anions

Aniracetam

Determination of aniracetam and its main metabolite, N-anisoyl-GABA, in human plasma by high-performance liquid chromatography 530(1990)397

Anisodine

Combination of ion-pair and column switching in high-performance liquid chromatography of tropane alkaloids 547(1991)175

Anisole

Retention times and heats of adsorption of aromatic compounds on carbon adsorbents 506(1990)335

N-Anisoyl-GABA

Determination of aniracetam and its main metabolite, N-anisoyl-GABA, in human plasma by high-performance liquid chromatography 530(1990)397

Anoxes

Retention prediction for polymer additives in reversed-phase liquid chromatography 550(1991)325

Anthocyanidins

Comparative study of the reversed-phase high-performance liquid chromatography of black tea liquors with special reference to the thearubigins 542(1991)115

Anthocyanins

Analysis of anthocyanins in red wines by high-performance liquid chromatography using butylamines in the mobile phase 504(1990)207

High-performance liquid chromatography of red fruit anthocyanins 537(1991)101

Anthracene

Long-term use of liquid-crystalline stationary phase for separation and determination of polynuclear aromatic hydrocarbons in carbochemical products. Comparison of results obtained by different methods 509(1990)53

Solubility parameter treatment for the characterization of the stationary phase in the reversed-phase chromatography of benzene derivatives 515(1990)3

Anthracene-2,3-dialdehyde

Naphthalene- and anthracene-2,3-dialdehyde as precolumn labelling reagents for primary amines using reversed- and normal-phase liquid chromatography with peroxyoxalate chemiluminescence detection 511(1990)155

Anthracyclines

Sensitive method for the determination of daunorubicin and all its known metabolites in plasma and heart by high-performance liquid chromatography with fluorescence detection 529(1990)359

Anthranilate synthase

High-performance liquid chromatographic assay of anthranilate synthase from plant cell cultures 547(1991)155

Anthraquinone dyes

Design and applications of biomimetic anthraquinone dyes. III. Anthraquinone-immobilised C.I. Reactive Blue 2 analogues and their interaction with horse liver alcohol dehydrogenase and other adenine nucleotide-binding proteins 508(1990)109

9-Anthryldiazomethane

Post-column adjustment of conditions for peroxyoxalate chemiluminescence detection for high-performance liquid chromatography 503(1990)155

Screening method for phenoxy acid herbicides in ground water by high-performance liquid chromatography of 9-anthryldiazomethane derivatives and fluorescence detection 541(1991)359

Antibacterial agents

High-performance liquid chromatographic determination of several quinolone antibacterials in medicated fish feed 514(1990)348

Antibiotics

Assay of methylthiolinosaminide in fermentations by high-performance liquid chromatography with fluorescence detection 502(1990)184

Impurity profiling of clarithromycin using high-performance liquid chromatography with ultraviolet detection 502(1990)351

Rapid identification and determination of herbicolin A and B by high-performance liquid chromatography 502(1990)437

Precolumn derivatization technique for high-performance liquid chromatographic determination of penicillins with fluorescence detection 504(1990)359

Determination of amoxicillin in plasma by high-performance liquid chromatography with fluorescence detection after on-line oxidation 506(1990)417

High-performance liquid chromatographic method for the simultaneous assay of a new synthetic penem molecule and its salt-forming agent in injectable formulations 507(1990)171

Determination of penicillin G in milk by high-performance liquid chromatography with automated liquid chromatographic cleanup 507(1990)177

High-performance liquid chromatographic assay of ampicillin and its prodrug lenampicillin 507(1990)235

Liquid chromatographic investigation of quinoxaline antibiotics and their analogues by means of ultraviolet diode-array detection 507(1990)277

Separation and detection of monensin, lasalocid and salinomycin by thin-layer chromatography/bioautography 508(1990)386

High-performance liquid chromatographic procedures in monitoring the production and quality control of chlortetracycline 509(1990)189

Neutral, alkaline and difference ultraviolet spectra of secondary metabolites from *Penicillium* and other fungi, and comparisons to published maxima from gradient high-performance liquid chromatography with diode-array detection 511(1990)195

High-performance liquid chromatographic analysis of Romet-30® in salmon following administration of medicated feed 518(1990)179

High-performance liquid chromatography on silica dynamically modified with hydrazinium derivatives 521(1990)19

Application of high-performance liquid chromatography to the purification of the putative intestinal peptide transporter 521(1990)199

Determination of tobramycin using high-performance liquid chromatography with pulsed amperometric detection 527(1990)244

High-performance liquid chromatography of antibiotics 531(1990)509

High-performance liquid chromatographic separation of the three stereoisomers of diaminopimelic acid in hydrolysed bacterial cells 536(1991)211

High-performance liquid chromatographic determination of bleomycins 536(1991)343

Isolation of bacitracins A and F by high-speed counter-current chromatography 538(1991)203

Analysis of veterinary drugs using supercritical fluid chromatography and supercritical fluid chromatography-mass spectrometry 540(1991)257

High-performance liquid chromatographic determination of mycophenolic acid in fermentation broth 540(1991)383

Estimation and identification of non-polar compounds in clarithromycin bulk drug by high-performance liquid chromatography 540(1991)422

High-performance liquid chromatographic determination of the antibiotic cortalcerone 542(1991)200

Simultaneous determination of chloramphenicol and benzocaine in topical formulations by high-performance liquid chromatography 542(1991)515

Separation and determination of polyether carboxylic antibiotics from *Streptomyces hygroscopicus* NRRL B 1865 by thin-layer

chromatography with flame ionization detection 547(1991)411

High-performance liquid chromatographic method for the determination of cloxacillin in commercial preparations and for stability studies 549(1991)410

Fully automatic high-performance liquid chromatographic optimization 550(1991)27

Antibodies

see also Monoclonal antibodies

Site-directed immobilization of proteins 510(1990)293

Eupergit C as a carrier for high-performance liquid chromatographic-based immunopurification of antigens and antibodies 510(1990)311

Immobilization of α -human atrial natriuretic peptide on insoluble supports and affinity purification of specific antibodies from a polyclonal goat anti- α -human atrial natriuretic peptide serum 510(1990)339

Synthetic antibody fragment as ligand in immunoaffinity chromatography 512(1990)337

Preparative high-performance liquid chromatography on a unique high-speed macroporous resin 512(1990)365

Isolation of anti-idiotypic antibodies by immunoaffinity chromatography on Affinichrom beads 512(1990)387

Purification of a recombinantly produced transmembrane protein (gp41) of HIV I 521(1990)267

Chemical, physical and chromatographic properties of Superdex 75 prep grade and Superdex 200 prep grade gel filtration media 537(1991)17

Purification of heparin cofactor II from human plasma 539(1991)493

Comparison of site-specific coupling chemistry for antibody immobilization on different solid supports 542(1991)41

Characterization of synthetic macroporous ion-exchange resins in low-pressure cartridges and columns. Evaluation of the performance of

Macro-Prep 50 S resin in the purification of anti-Klenow antibodies from goat serum 548(1991)165

A ten-residue fragment of an antibody (mini-antibody) directed against lysozyme as ligand in immunoaffinity chromatography 548(1991)235

Effect of antigen size on optimal ligand density of immobilized antibodies for a high-performance liquid chromatographic support 548(1991)243

Anticancer drugs

Chromatographic analysis of anticancer drugs 531(1990)235

Antidepressants, tricyclic

Antidepressants in serum determined by isolation with two on-line sorbent cartridges and liquid chromatography 530(1990)359

Antiepileptic drugs

Simultaneous determination of six antiepileptic drugs by capillary gas chromatography 527(1990)428

Analysis of antiepileptic drugs 531(1990)421

Antigens

Eupergit C as a carrier for high-performance liquid chromatographic-based immunopurification of antigens and antibodies 510(1990)311

Chromatography and generation of specific antisera to synthetic peptides from a protective *Boophilus microplus* antigen 512(1990)189

Purification of a recombinantly produced transmembrane protein (gp41) of HIV I 521(1990)267

Non-radioactive detection of MHC class II-peptide antigen complexes in the sub-picomole range by high-performance size-exclusion chromatography with fluorescence detection 548(1991)343

Anti- α -human atrial natriuretic peptide

Immobilization of α -human atrial natriuretic peptide on insoluble supports and affinity purification of specific antibodies from a polyclonal goat anti- α -human atrial natriuretic peptide serum 510(1990)339

Anti-idiotypes

Isolation of anti-idiotypic antibodies by immunoaffinity chromatography on Affinichrom beads 512(1990)387

Antimycin A

Liquid chromatography-thermospray mass spectrometric study of N-acylamino dilactones and 4-butyrolactones derived from antimycin A 522(1990)179

Antioxidants

Application de la dérivation par l'isocyanate de phényle à l'analyse chromatographique de molécules phénoliques (antioxydants) 519(1990)337

Étude par chromatographie liquide haute performance des antioxydants phénoliques présents dans les matériaux plastiques. Comparaison de trois méthodes de détection: spectrophotométrique dans l'ultra-violet, électrochimique, et évaporative à diffusion de la lumière 522(1990)131

Applications of high-speed counter-current chromatography for the separation and isolation of natural products 538(1991)193

Antiparasitic agents

Use of thin-layer chromatography for the testing of avermectins produced by *Streptomyces avermitilis* strains 513(1990)401

Antipyrene

Rapid and simple high-performance liquid chromatographic determination of saliva antipyrene for routine antipyrene test 526(1990)296

Antisera

Chromatography and generation of specific antisera to synthetic peptides from a protective *Boophilus microplus* antigen 512(1990)189

Antithrombin III

Double-coated silica supports for high-performance affinity chromatography of proteins 510(1990)71

α_1 -Antitrypsin

Oligosaccharide mapping of therapeutic glycoproteins by high-pH anion-exchange high-performance liquid chromatography 512(1990)149

Anti-tumour antibodies

Isolation of anti-idiotypic antibodies by immunoaffinity chromatography on Affinichrom beads 512(1990)387

Anti-ulcer agents

Bioanalysis of anti-ulcer agents 531(1990)407

Antiviral agents

High-performance liquid chromatographic approach to the separation of antiviral and immunostimulant fractions in Neuramide 512(1990)123

Chromatographic methods for the bioanalysis of antiviral agents 531(1990)295

High-performance liquid chromatographic purification of antiviral components in Neuramide 548(1991)289

Apigenin

Automated multiple development high-performance thin-layer chromatographic analysis of natural phenolic compounds 511(1990)396

Apigenin-7-O-glucoside

Automated multiple development high-performance thin-layer chromatographic analysis of natural phenolic compounds 511(1990)396

Apolipoproteins

Separation of human apolipoproteins A-IV, A-I and E by reversed-phase high-performance liquid chromatography on a TSK Phenyl-5PW column 511(1990)147

Characterization of apolipoproteins from chicken plasma 512(1990)203

Purification of human serum amyloid A by anion-exchange fast protein liquid chromatography 526(1990)203

Simple and rapid method for the purification of human apolipoprotein C II by reversed-phase high-performance liquid chromatography 527(1990)140

Large-scale isolation and purification of human apolipoproteins A-I and A-II 537(1991)464

Application of reversed-phase high-performance liquid chromatography to the separation of apolipoproteins A-IV, A-I and E from rat high-density lipoprotein 540(1991)386

Apo-retinoids

Capillary gas chromatography of retinoids (vitamin A compounds) and apo-retinoids: determination of Kováts retention indices 527(1990)406

Aprotinin

One-step purification of trypsin and α -chymotrypsin by affinity chromatography on

Eupergit-aprotinin, a novel carrier for purification of serine proteases 510(1990)239

Identification of aprotinin degradation products by the use of high-performance capillary electrophoresis, high-pressure liquid chromatography and mass spectrometry 516(1990)175

High-performance liquid chromatographic method for the determination of aprotinin in body fluids 525(1990)426

 α -L-Arabinofuranosidase

Separation of the cellulolytic and xylanolytic enzymes of *Clostridium stercoararium* 521(1990)301

L-Arabinose

Selective post-column liquid chromatographic determination of sugars in spent sulphite liquor with two enzymatic electrochemical detectors in parallel 506(1990)423

Arachidonic acid

High-performance liquid chromatographic quantitation of cyclooxygenase and lipoxygenase metabolites of arachidonic acid from rat polymorphonuclear leukocytes 532(1990)135

Simultaneous reversed-phase extraction of lipoxygenase and cyclooxygenase metabolites of arachidonic acid in nasal secretions: methodological aspects 532(1990)217

Arachidonyl alcohol

Long-chain fatty alcohol quantitation in subfemtomole amounts by gas chromatography-negative ion chemical ionization mass spectrometry. Application to long-chain acyl coenzyme A measurement 509(1990)325

Arbutin

Determination of arbutin in *uva-ursi* folium (bearberry leaves) by capillary zone electrophoresis 514(1990)383

1,4-Arenequinones

Electrochemical biosensors on thin-film metals and conducting polymers 510(1990)355

Arginine

High-performance liquid chromatographic investigations on the cleavage kinetics of side-chain-protected arginine derivatives with a sophisticated post-column reaction detector 512(1990)249

High-performance liquid chromatographic analysis of the unusual pathway of oxidation of L-arginine to citrulline and nitric oxide in mammalian cells 539(1991)433

Argininosuccinic acid

Positive-ion thermospray liquid chromatography-mass spectrometry: detection of organic acidurias 534(1990)1

Armostat 400

Characterization of polymer additives by supercritical fluid chromatography and by liquid chromatography 505(1990)283

Aromatic acids

see also Carboxylic acids and Organic acids

Determination of resin and fatty acids in pulp and paper mill effluents and white waters by gas-liquid chromatography 509(1990)65

Chromatographic behaviour of aromatic acids in reversed-phase high-performance liquid chromatography 523(1990)227

Aromatic amines

see also Amines

Copper(II)-iminodiacetic acid chelating resin as a stationary phase in the immobilized metal ion affinity chromatography of some aromatic amines 515(1990)169

Determination of aromatic amines at trace levels by ion interaction reagent reversed-phase high-performance liquid chromatography. Analysis of hair dyes and other water-soluble dyes 518(1990)149

Aromatic compounds, disubstituted

Retention prediction of analytes in reversed-phase high-performance liquid chromatography based on molecular structure. VI. Disubstituted aromatic compounds 550(1991)335

Aromatic diamines

2-Trichloromethylbenzimidazole, a selective chromogenic reagent for the detection of *o*-phenylenediamine on thin-layer plates 541(1991)480

Aromatic hydrocarbons

see also Hydrocarbons

Correlation between chemical structure of non-congeneric solutes and their retention on polybutadiene-coated alumina 506(1990)3

On-line chromatography with capillary columns and temperature programming. Determination of traces of 2-butenes in 1-butene and analysis of a reformat 509(1990)33

On-line chromatographic analyser for determining the composition and octane number of reforming process effluents 509(1990)47

Characterization of an adamantyl-modified silica used as a stationary phase in high-performance liquid chromatography 514(1990)11

Polymer-inorganic selective adsorbents for gas chromatography produced by graft polymerization 520(1990)21

Chemical class separation of coal liquids by high-performance liquid chromatography on a semi-preparative, phosphoric acid-modified amino-bonded-phase column 550(1991)609

Aroylacrylic acids

High-performance liquid chromatographic determination of aliphatic thiols with aroylacrylic acids as fluorogenic precolumn derivatization reagents 507(1990)451

Arsenate

Simultaneous determination of arsenite, arsenate, selenite and selenate in waters using suppressed ion chromatography with ultraviolet absorbance detection 537(1991)269

Analysis of anion constituents of urine by inorganic capillary electrophoresis 546(1991)459

Arsenite

Simultaneous determination of arsenite, arsenate, selenite and selenate in waters using suppressed ion chromatography with ultraviolet absorbance detection 537(1991)269

Analysis of anion constituents of urine by inorganic capillary electrophoresis 546(1991)459

Artemisinin

Rapid method for the detection and determination of artemisinin by gas chromatography 538(1991)452

2-Aryloxypropionic acid methyl esters

Enantiomeric separation of substituted 2-aryloxy propionic esters. Application to the determination of the enantiomeric excess in herbicide formulations 541(1991)349

Arylsulphonylalkanoic acids

Determination of the lipophilicity of arylsulphonylalkanoic and arylsulphonylcycloalkanecarboxylic acids by thin-layer chromatography 543(1991)195

Arylsulphonylcycloalkanecarboxylic acids

Determination of the lipophilicity of arylsulphonylalkanoic and arylsulphonylcycloalkanecarboxylic acids by thin-layer chromatography 543(1991)195

Ascorbic acid

see Vitamin C

Ascorbic acid-2-phosphate

Determination of ascorbic acid, dehydroascorbic acid and ascorbic acid-2-phosphate in infiltrated apple and potato tissue by high-performance liquid chromatography 503(1990)431

Aspartame

Direct stereochemical resolution of aspartame stereoisomers and their degradation products by high-performance liquid chromatography on a chiral crown ether based stationary phase 516(1990)365

Analytical- and preparative-scale chromatographic separation of phenylalanine from aspartame using a new polymeric sorbent 540(1991)85

Separation of aspartame and its precursor stereoisomers by chiral chromatography 540(1991)392

Aspartate aminotransferase

Unfolding of truncated and wild type aspartate aminotransferase studied by size-exclusion chromatography 539(1991)383

Aspartic acid

High-performance liquid chromatographic determination of selected amino acids in rat brain by precolumn derivatization with phenylisothiocyanate 503(1990)177

Isotachophoretic separation of organic acids in biological fluids 516(1990)251

Aspartyl-phenylalanine

Direct stereochemical resolution of aspartame stereoisomers and their degradation products by high-performance liquid chromatography on a chiral crown ether based stationary phase 516(1990)365

Aspoxicillin

Separation and determination of aspoxicillin in human plasma by micellar electrokinetic chromatography with direct sample injection 515(1990)245

Asulam

Some possibilities of combining high-performance liquid chromatography with isotachopheresis for the trace determination of ionogenic compounds present in complex matrices 509(1990)271

Atenolol

Separation of the enantiomers of β -receptor blocking agents and other cationic drugs using a CHIRAL-AGP[®] column. Binding properties and characterization of immobilized α_1 -acid glycoprotein 519(1990)285

Chiral stationary phase for the facile resolution of β -adrenoceptor blocking agents 521(1990)122

Enantiomeric separation of amines using N-benzoxycarbonylglycyl-L-proline as chiral additive and porous graphitic carbon as solid phase 543(1991)287

Comparison of a new ovomucoid and a second-generation α_1 -acid glycoprotein-based chiral column for the direct high-performance liquid chromatography resolution of drug enantiomers 545(1991)43

Atmer 129

Characterization of polymer additives by supercritical fluid chromatography and by liquid chromatography 505(1990)283

ATPase

Purification of the subunits of pea mitochondrial F_1 -ATPase by high-performance liquid chromatography 521(1990)43

ATPase inhibitor, H⁺/K⁺

Two systems for the automated analysis of drugs in biological fluids using high-performance liquid chromatography 527(1990)67

High-performance liquid chromatographic determination of the H⁺/K⁺ ATPase inhibitor (BY 1023/SK&F 96 022) and its sulphone metabolite in serum or plasma by direct injection and fully automated pre-column sample clean-up 529(1990)389

Atracurium

Simplified method for the determination of atracurium and laudanosine in pig plasma by

high-performance liquid chromatography and fluorimetric detection 526(1990)223

Determination of atracurium and laudanosine in human plasma by high-performance liquid chromatography 529(1990)319

Simple high-performance liquid chromatographic method for the analysis of the non-depolarizing neuromuscular blocking drugs in clinical anaesthesia 533(1990)241

Atrazine

Determination of chlorotriazines and their photolysis products by liquid chromatography with photodiode-array and thermospray mass spectrometric detection 502(1990)275

Reversed-phase high-performance liquid chromatographic method for the determination of soil-bound [¹⁴C]atrazine and its radiolabeled metabolites in a soil metabolism study 514(1990)209

Use of field-flow fractionation to study pollutant-colloid interactions 517(1990)435

High-performance liquid chromatographic determination of atrazine in human plasma 526(1990)569

High-performance liquid chromatographic determination of atrazine, deisopropylatrazine and deethylatrazine in soils from corn fields 549(1991)229

Atrial natriuretic peptide

Immobilization of α -human atrial natriuretic peptide on insoluble supports and affinity purification of specific antibodies from a polyclonal goat anti- α -human atrial natriuretic peptide serum 510(1990)339

Atropine

Chiral separations of atropine and homatropine on an α_1 -acid glycoprotein-bonded stationary phase 506(1990)579

Analysis of some tropane alkaloids in plants by mixed-column high-performance liquid chromatography 547(1991)468

Auxins

Systematic search for suitable two-phase solvent systems for high-speed counter-current chromatography 538(1991)99

Avermectins

Use of thin-layer chromatography for the testing of avermectins produced by *Streptomyces avermitilis* strains 513(1990)401

Avidin

Application of avidin-biotin technology to affinity-based separations (Review) 510(1990)3

Studies on the interaction of a surface-bound ligand with a multi-valent high-molecular-weight ligate. The biotinylcellulose-avidin system 510(1990)23

Purification of gonadotropin releasing hormone receptors using the avidin-biotin technique 510(1990)233

Azadirachtin

Simple method for the isolation of azadirachtin by preparative high-performance liquid chromatography 513(1990)389

Analysis of azadirachtin by supercritical-fluid chromatography 519(1990)137

Azalactones

Immobilization of Protein A at high density on azlactone-functional polymeric beads and their use in affinity chromatography 512(1990)345

3'-Azido-3'-deoxythymidine

Analysis of 3'-azido-3'-deoxythymidine levels in tissues and milk by isocratic high-performance liquid chromatography 528(1990)371

Determination of 3'-azido-3'-deoxythymidine, 2',3'-dideoxycytidine, 3'-fluoro-3'-deoxythymidine and 2',3'-dideoxyinosine in biological samples by high-performance liquid chromatography 534(1990)101

Chromatographic characterization of some dideoxyribonucleosides 550(1991)507

Azidomorphine

Spacer-displacement and carrier spacer-displacement thin-layer chromatography 520(1990)287

Aziridine

Triazolines. XXII. Chromatography of 1-phenyl-5-(4-pyridyl)-4²-1,2,3-triazolines and related 1,2,3-triazoles, a new class of anticonvulsant agents 533(1990)248

Azorubine

Isotachopheresis of some synthetic colorants in foods 545(1991)413

B

Bacitracin

Isolation of bacitracins A and F by high-speed counter-current chromatography 538(1991)203

Foam counter-current chromatography of bacitracin. II. Continuous removal and concentration of hydrophobic components with nitrogen gas and distilled water free of surfactants or other additives 538(1991)213

Baclofen

Preparative liquid chromatographic separation of isomers of 4-amino-3-(4-chlorophenyl)butyric acid 542(1991)502

Bacteroides forsythus

Cellular fatty acids of *Bacteroides forsythus* 533(1990)141

Bamifylline

Micro-scale liquid chromatographic method for the determination of bamifylline and its major metabolite in human plasma 535(1990)305

Bamipine

Separation and simultaneous determination of bamipine and salbutamol in dosage forms by high-performance liquid chromatography 502(1990)189

Barban

Development of an automated high-performance liquid chromatographic method for the on-line pre-concentration and determination of trace concentrations of pesticides in drinking water 503(1990)167

Barbiturates

Enantiomer separation of chiral barbiturates and of α -lipoic acid by capillary gas chromatography with modified cyclodextrins as chiral stationary phases 503(1990)256

Application of a computer-assisted high-performance liquid chromatographic multi-wavelength ultraviolet detection system to simultaneous toxicological drug analyses 506(1990)133

Displacement chromatography on cyclodextrin-silicas. III. Enantiomer separations 506(1990)481

Influence of uncharged mobile phase additives on retention and enantioselectivity of chiral drugs using an α_1 -acid glycoprotein column 519(1990)271

Identification and differentiation of barbiturates, other sedative-hypnotics and their metabolites in urine integrated in a general screening procedure using computerized gas chromatography-mass spectrometry 530(1990)307

Analysis of barbiturates in human serum and urine by high-performance capillary electrophoresis-micellar electrokinetic capillary chromatography with on-column multi-wavelength detection 545(1991)445

Barium

Use of isotachopheresis as a reference method for the simultaneous determination of barium and strontium 545(1991)475

Basic compounds

Novel, highly deactivated reversed-phase for basic compounds 506(1990)357

Basic drugs

Validation of an expert system for the selection of initial high-performance liquid chromatographic conditions for the analysis of basic drugs 506(1990)211

Retention reproducibility of basic drugs in high-performance liquid chromatography on a silica column with a methanol-high-pH buffer eluent. Effect of operating conditions on separations using an organic buffer 514(1990)97

Solid-phase extraction for the screening of acidic, neutral and basic drugs in plasma using a single-column procedure on Bond Elut Certify 529(1990)161

Belfosdil

Determination of belfosdil, a new calcium channel blocker, in human plasma by capillary gas chromatography with nitrogen-phosphorus detection 527(1990)343

Bendamustine

Determination of a cytostatic agent, bendamustine, in plasma using capillary gas chromatography with nitrogen-selective detection 525(1990)459

Benidipine

Optical resolution of dihydropyridine enantiomers by high-performance liquid

chromatography using phenylcarbamates of polysaccharides as a chiral stationary phase 513(1990)375

Benomyl

Simultaneous determination of trace concentrations of benomyl, carbendazim (MBC) and nine other pesticides in water using an automated on-line pre-concentration high-performance liquid chromatographic method 518(1990)242

Bentazone

Separation and determination of acidic herbicides on a PRP-1 polymeric column 513(1990)219

Determination of phenoxyacid herbicides in water 547(1991)478

Benzalazine

Determination of hydrazine in hydralazine by capillary gas chromatography with nitrogen-selective detection after benzaldehyde derivatization 511(1990)303

Benzaldehyde

Determination of hydrazine in hydralazine by capillary gas chromatography with nitrogen-selective detection after benzaldehyde derivatization 511(1990)303

Micellar electrokinetic chromatography employing sodium alkyl sulfates and Brij 35® 517(1990)549

Benzalkonium chloride

Reversed-phase high-performance liquid chromatography applied to the direct analysis of untreated heterophasic systems 507(1990)403

Benzamides

Regulation of peak compression effects for substituted benzamides in reversed-phase liquid chromatography 506(1990)253

Benzene derivatives

Correlation between chemical structure of non-congeneric solutes and their retention on polybutadiene-coated alumina 506(1990)3

Chemically modified polymeric resins for high-performance liquid chromatography 522(1990)95

Benzenes

Isotope dilution gas chromatography-mass spectrometry in the determination of benzene, toluene, styrene and acrylonitrile in mainstream cigarette smoke 503(1990)359

Retention times and heats of adsorption of aromatic compounds on carbon adsorbents 506(1990)335

Liquid chromatography of liquid substances characterized by limited solubility in the eluent 509(1990)157

Use of a gamma energy distribution to model the gas chromatographic temperature dependence of solute retention on aryl-siloxane chemically modified porous carbon 513(1990)1

Micellar electrokinetic chromatography employing sodium alkyl sulfates and Brij 35® 517(1990)549

Determination of monocyclic aromatic hydrocarbons in plant cuticles by gas chromatography-mass spectrometry 541(1991)83

Polar bonded phase with the zwitterionic sulfobetaine functional group. Comparison to silica 544(1990)113

Gas chromatographic properties of organoammonium exchanged montmorillonites. I. Tetraalkylammonium cations 549(1991)273

Benzenes, monosubstituted

Measurement of lipophilicity indices by reversed-phase high-performance liquid chromatography: comparison of two stationary phases and various eluents 541(1991)221

Benzenesulphonate

Retention prediction based on the electrostatic model of reversed-phase ion-pair high-performance liquid chromatography: effect of pairing ion concentration 535(1990)181

Benzenesulphonic acid

High-performance liquid chromatographic investigation of the interaction of phenylmercuric nitrate and sodium metabisulphite in eye drop formulations 511(1990)233

Benzoate

Computer-assisted choice of electrolyte systems and spacing constituents for two-dimensional capillary isotachopheresis 509(1990)287

Benzocaine

Simultaneous determination of chloramphenicol and benzocaine in topical formulations by high-performance liquid chromatography 542(1991)515

Separation and simultaneous high-performance liquid chromatographic determination of benzocaine and benzyl benzoate in a pharmaceutical preparation 549(1991)217

1,4-Benzodiazepine-2-ones

High-performance liquid chromatographic resolution of racemic 1,4-benzodiazepin-2-ones by means of a β -cyclodextrin silica bonded chiral stationary phase 506(1990)617

Benzodiazepines

Application of a computer-assisted high-performance liquid chromatographic multi-wavelength ultraviolet detection system to simultaneous toxicological drug analyses 506(1990)133

Retention characteristics of CN, NH₂ and diol precoated high-performance thin-layer chromatographic plates in the adsorption and reversed-phase separation of some benzodiazepine derivatives 514(1990)45

Linear solvation energy relationships in the study of the solvatochromic properties and liquid chromatographic retention behaviour of benzodiazepines 522(1990)37

High-performance liquid chromatographic procedure for the determination of clozapine, haloperidol, droperidol and several benzodiazepines in plasma 525(1990)218

Chromatography of benzodiazepines 531(1990)459

Simultaneous screening and quantitative analysis of benzodiazepines by dual-channel gas chromatography using electron-capture and nitrogen-phosphorus detection 533(1990)97

Collection of analytical data for benzodiazepines and benzophenones. Appendix 538(1991)277

Benzodioxanyl

Application of sodium lauryl sulphate ion-pairing reversed-phase high-performance liquid chromatography in the separation of some isomeric and other closely related basic compounds in pharmaceutical analysis 520(1990)367

Benzoic acids

High-performance liquid chromatographic computer simulation based on a restricted multi-

parameter approach. I. Theory and verification 535(1990)55

High-performance liquid chromatographic computer simulation based on a restricted multi-parameter approach. II. Applications 535(1990)75

High-performance liquid chromatographic detection of hydroxylated benzoic acids as an indirect measure of hydroxyl radical in heart: its possible link with the myocardial reperfusion injury 536(1991)273

Molecular interactions in liquid chromatography 537(1991)33

Gas chromatographic analysis of tropic, benzoic and cinnamic acids, biosynthetic tropane alkaloid precursors 539(1991)232

Hydrophilic shielding of hydrophobic, cation- and anion-exchange phases for separation of small analytes: direct injection of biological fluids onto high-performance liquid chromatographic columns (Review) 544(1991)41

Benzophenanthridine

Solid-phase extraction and fluorimetric detection of benzophenanthridine alkaloids from *Sanguinaria canadensis* cell cultures 519(1990)99

Benzophenones

Determination of sunscreen compounds in topical sunscreen products 519(1990)117

Collection of analytical data for benzodiazepines and benzophenones. Appendix 538(1991)277

Benzo[a]pyrene

Retention of benzo[a]pyrene on cyclodextrin-bonded phases 516(1990)355

Quantitative comparisons of reaction products using liquid chromatography with dual-label radioactivity measurements 522(1990)117

High-performance liquid chromatographic method for the determination of polycyclic hydrocarbon metabolite distributions 530(1990)337

Benzo[a]pyrene diol epoxides

Resolution of enantiomeric triols, triol-hydroxyethylthioethers, and methoxy-triols derived from three benzo[a]pyrene diol-epoxides

by chiral stationary phase high-performance liquid chromatography 535(1990)239

Benzo[e]pyrene

Solid-surface room-temperature phosphorescence detection for high-performance liquid chromatography 508(1990)37

Benzuberone

Utility of the displacement effect in the routine optimization of separations by preparative liquid chromatography 523(1990)63

Benzothiazepin analogues

Separation and determination of lipophilic corticosteroids and benzothiazepin analogues by micellar electrokinetic chromatography using bile salts 513(1990)279

Benzothiazole

Comparison of sorbents for solid-phase extraction of polar compounds from water 509(1990)123

1,4-Benzoxazin-3-ones

Separation and quantification of 1,4-benzoxazin-3-ones and benzoxazolin-2-ones in maize root extract by high-performance liquid chromatography 543(1991)389

Benzoxazolin-2-ones

Separation and quantification of 1,4-benzoxazin-3-ones and benzoxazolin-2-ones in maize root extract by high-performance liquid chromatography 543(1991)389

N-Benzoylalanine

Measurement of the heats of adsorption of chiral isomers on an enantioselective stationary phase 522(1990)23

Benzoylcegonine

Microassay for the simultaneous determination of cocaine, norcocaine, benzoylcegonine and benzoylecgonine by high-performance liquid chromatography 525(1990)113

Simultaneous determination of cocaine and its metabolites with caffeine in rat serum microsamples by high-performance liquid chromatography 532(1990)95

Benzoylecgonine

Microassay for the simultaneous determination of cocaine, norcocaine, benzoylcegonine and benzoylecgonine by high-performance liquid chromatography 525(1990)113

Simultaneous determination of cocaine and its metabolites with caffeine in rat serum microsamples by high-performance liquid chromatography 532(1990)95

Benzphetamine

Détection spécifique par chromatographie gazeuse-spectrométrie de masse des amines sympathomimétiques urinaires dans le cadre des contrôles antidopage 541(1991)109

Benzylamine

Determination of benzylamine and its N-oxide in biological fluids by high-performance liquid chromatography 529(1990)113

Benzylamine N-oxide

Determination of benzylamine and its N-oxide in biological fluids by high-performance liquid chromatography 529(1990)113

Benzyl acetate

Applications of high-speed counter-current chromatography for the separation and isolation of natural products 538(1991)193

Benzyl alcohol

Applications of high-speed counter-current chromatography for the separation and isolation of natural products 538(1991)193

Benzylamine

Comparison of octadecyl-bonded alumina and silica for reversed-phase high-performance liquid chromatography 505(1990)307

Determination of aromatic amines at trace levels by ion interaction reagent reversed-phase high-performance liquid chromatography. Analysis of hair dyes and other water-soluble dyes 518(1990)149

Benzyl benzoate

Separation and simultaneous high-performance liquid chromatographic determination of benzocaine and benzyl benzoate in a pharmaceutical preparation 549(1991)217

Benzyl-*n*-butyl phthalate

Optimization of the isocratic high-performance liquid chromatographic separation of selected phthalates using the overlapping resolution mapping technique 513(1990)360

Benzyl chloride

Improvement of activated carbon for air sampling 503(1990)33

Benzyl methyl ketone

Applications of high-speed counter-current chromatography for the separation and isolation of natural products 538(1991)193

cis-N-(1-Benzyl-2-methylpyrrolidin-3-yl)-5-chloro-2-methoxy-4-methylaminobenzamide

High-performance liquid chromatographic determination of *cis*-N-(1-benzyl-2-methylpyrrolidin-3-yl)-5-chloro-2-methoxy-4-methylaminobenzamide in rat blood and brain using electrochemical detection 526(1990)282

Benzyltrimethylammonium iodide

Gas chromatographic retention properties of organoammonium exchanged montmorillonites. II. $\text{CH}_3\text{N}^+\text{H}_3$, $(\text{CH}_3)_4\text{N}^+$, $(\text{CH}_3)_3\text{N}^+\text{CH}_2\text{C}_6\text{H}_5$ and 1,4-diazabicyclo[2.2.2]octane · 2H⁺ 549(1991)283

Berberine

Determination of isoquinoline alkaloids in *Chelidonium majus* L. by ion-pair high-performance liquid chromatography 542(1991)193

Bergamot oil

Direct use of Empore sheets in overpressured thin-layer chromatography 547(1991)403

Beryllium

Determination of trace elements by ion chromatography. I. Beryllium 538(1991)365

Betaxolol

Determination of betaxolol and its metabolites in blood and urine by high-performance liquid chromatography with fluorimetric detection 534(1990)161

Betaxolol, acid metabolite

Determination of betaxolol and its metabolites in blood and urine by high-performance liquid chromatography with fluorimetric detection 534(1990)161

Bianthraquinone pigments

High-performance liquid chromatographic determination of alterporriol D and E in fermentation of *Alternaria porri* (Ellis) Ciferri 503(1990)282

Bicarbonate

Determination of borate at trace levels in environmental samples by ion-exclusion chromatography 508(1990)265

Bile acids

High-performance liquid chromatography with a 3 α -hydroxysteroid dehydrogenase postcolumn reactor and isoluminol-microperoxidase chemiluminescence detection 515(1990)329

Sensitive assay system for bile acids and steroids having hydroxyl groups utilizing high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 515(1990)577

Simultaneous determination of keto and non-keto bile acids in human serum by gas chromatography with selected ion monitoring 525(1990)25

Capillary gas chromatographic behavior of stereoisomeric bile acids with a *vicinal* glycol structure by their "mixed" alkylboronate derivatives 537(1991)345

High-performance liquid chromatographic separation of bile acids and bile alcohols diastereoisomeric at C-25 542(1991)184

Bile alcohols

High-performance liquid chromatographic separation of bile acids and bile alcohols diastereoisomeric at C-25 542(1991)184

Bile pigments

High-performance liquid chromatographic analysis of bile pigments as their native tetrapyrroles and as their dipyrrolic azosulfanilate derivatives 529(1990)287

Bile salts

Chiral separation of diltiazem, trimetoquinol and related compounds by micellar electrokinetic chromatography with bile salts 515(1990)233

Bilirubin conjugates

High-performance liquid chromatographic separation of bilirubin conjugates: the effects of change in molarity and pH 528(1990)123

Bilobalide

Determination of ginkgolides and bilobalide in *Ginkgo biloba* leaves and phytopharmaceuticals 543(1991)375

Fast development of a robust high-performance liquid chromatographic method for *Ginkgo biloba* based on computer simulation 550(1991)39

Biochanin A

Determination of isoflavones from *Ononis spinosa* L. extracts by high-performance liquid chromatography with ultraviolet diode-array detection 513(1990)397

Biogenic amines

see also Catecholamines and Indoleamines

Detection and identification modes for the highly sensitive and simultaneous determination of various biogenic amines by coulometric high-performance liquid chromatography 515(1990)265

Optimal conditions for long-term storage of biogenic amines for subsequent analysis by column chromatography with electrochemical detection 518(1990)258

Biopolymers

Aligned fiber columns for size-exclusion chromatography 506(1990)303

Refractive index gradient detection of biopolymers separated by high-temperature liquid chromatography 536(1991)289

Multivalent ion-exchange model of biopolymer chromatography for mass overload conditions 548(1991)61

Biotin

Application of avidin-biotin technology to affinity-based separations (Review) 510(1990)3

Studies on the interaction of a surface-bound ligand with a multi-valent high-molecular-weight ligate. The biotinylcellulose-avidin system 510(1990)23

Purification of gonadotropin releasing hormone receptors using the avidin-biotin technique 510(1990)233

Procedure for the purification of streptavidin by hydrophobic interaction chromatography 520(1990)325

High-performance liquid chromatographic determination of biotin in pharmaceutical preparations by post-column fluorescence reaction with thiamine reagent 542(1991)365

Biotin-containing carboxylase

High-performance liquid chromatographic determination of four kinds of biotin-containing carboxylase 529(1990)55

Biphenol

Reversed-phase chromatographic separation of selected hydroxyl aromatics with β -cyclodextrin as a mobile phase additive 514(1990)19

Bis-(2-aminoethyl) ether

Identification of ferrioxamines by high-performance liquid chromatography and diode-array detection 513(1990)255

Bis-(2-chloroethyl)amine

Determination of nor-nitrogen mustard hydrochloride using gas chromatography with flame ionization detection 547(1991)501

1-[4-[3-[4-[Bis-(4-fluorophenyl)hydroxymethyl]-1-piperidinyl]propoxy]-3-methoxyphenyl]ethanone

Determination of a new anti-allergenic agent, 1-[4-[3-[4-[bis-(4-fluorophenyl)hydroxymethyl]-1-piperidinyl]propoxy]-3-methoxyphenyl]-ethanone, and its active acidic metabolite in plasma by high-performance liquid chromatography 527(1990)397

Biuret complexes

Electrochemical detection of oligopeptides through the precolumn formation of biuret complexes 542(1991)345

Bleomycins

Separation of bleomycins and their deamido metabolites by high-performance cation-exchange chromatography 514(1990)86

High-performance liquid chromatographic determination of bleomycins 536(1991)343

Block copolymers

Study of polystyrene-poly(ethylene oxide) block copolymer micelles in aqueous solution by size-exclusion chromatography 547(1991)434

Separation of copolymers according to composition with special emphasis on the effect of block structure 550(1991)629

 β -Blockers

Chromatography of β -adrenergic blocking agents 531(1990)131

Reversed-phase high-performance liquid chromatography of ketoxime analogues of β -adrenergic blockers 541(1991)469

Boldine

Chromatographic evaluation of boldine and associated alkaloids in Boldo 511(1990)373

Bombesin

High-performance liquid chromatographic determination of peptides in biological fluids by automated pre-column fluorescence derivatization with fluorescamine 548(1991)319

Bombyxin

Rapid isolation of a neurohormone from mosquito heads by high-performance liquid chromatography 542(1991)508

***Boophilus microplus* antigen**

Chromatography and generation of specific antisera to synthetic peptides from a protective *Boophilus microplus* antigen 512(1990)189

Borate

Determination of borate at trace levels in environmental samples by ion-exclusion chromatography 508(1990)265

Boron nitride

Gas chromatographic properties of modified boron nitride 520(1990)41

Bovine serum albumin

see Albumin

Bradykinin

Electrochemical detection of oligopeptides through the precolumn formation of biuret complexes 542(1991)345

High-performance liquid chromatographic determination of peptides in biological fluids by automated pre-column fluorescence derivatization with fluorescamine 548(1991)319

Brassinosteroids

Ferroceneboronic acid as a derivatization reagent for the determination of brassinosteroids by high-performance liquid chromatography with electrochemical detection 515(1990)227

Brilliant Black

Isotachopheresis of some synthetic colorants in foods 545(1991)413

Brine

Frontal chromatographic techniques in preparative chromatography 523(1990)11

Bromide

Ion chromatography of nitrite, bromide and nitrate ions in brine samples using a chloride-form anion-exchange resin column 514(1990)355

Analysis of atmospheric precipitation by reversed-phase ion-pair chromatography 514(1990)362

Hollow-fibre membrane-based sample preparation device for the clean-up of brine samples prior to ion chromatographic analysis 538(1991)497

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Bromine

Element-selective detection after supercritical fluid chromatography by means of a Surfatron plasma in the near-infrared spectral region 517(1990)477

N-Bromoacetyl-3,3',5-triiodo-L-thyronine

Synthesis and characterization of N-bromoacetyl-3,3',5-triiodo-L-thyronine 538(1991)165

Bromocriptine

High-performance liquid chromatographic assay of bromocriptine in rat plasma and brain 533(1990)264

Bromodibenzofuran

Correlation of structure with linear retention index for bromo- and bromochlorodibenzo-*p*-dioxins and bromodibenzofurans 540(1991)293

Bromodichloromethane

Determination of biogenic and anthropogenic volatile halocarbons in sea water by liquid-liquid extraction and capillary gas chromatography 513(1990)39

7-Bromomethylbenz[a]anthracene

Reactivity and adduct formation of a polyaromatic hydrocarbon, 7-bromomethylbenz[a]anthracene, with chromatin histone proteins 528(1990)25

4-Bromomethyl-7-methoxycoumarin

Improved automated precolumn derivatization reaction of fatty acids with bromomethylmethoxycoumarin as label 502(1990)423

Mechanistic study on the derivatization of aliphatic carboxylic acids in aqueous non-ionic micellar systems 507(1990)351

Bruceoside A

Determination of the anticancer drug bruceoside-A in the Chinese drug Yadanzi (*Brucea Javanica* Merr.) 543(1991)250

Bufomedil

High-performance liquid chromatographic method for the measurement of bufomedil in plasma and serum 532(1990)187

Bupivacaine

Sensitive determination of bupivacaine in human plasma by high-performance liquid chromatography 527(1990)201

Capillary gas chromatographic method for the simultaneous determination of local anaesthetics in plasma samples 533(1990)229

Retention prediction based on the electrostatic model of reversed-phase ion-pair high-performance liquid chromatography: effect of pairing ion concentration 535(1990)181

Buprenorphine

Analysis of buprenorphine in plasma and urine by gas chromatography 528(1990)459

Buspirone

Determination of plasma buspirone by high-performance liquid chromatography with coulometric detection 526(1990)590

Busulfan

Determination of busulfan in plasma by high-performance liquid chromatography 528(1990)274

Quantitation of busulfan in plasma by high-performance liquid chromatography 532(1990)424

Quantitation of busulfan in plasma by high-performance liquid chromatography using postcolumn photolysis 532(1990)429

Butanes

On-line chromatography with capillary columns and temperature programming. Determination of traces of 2-butenes in 1-butene and analysis of a reformat 509(1990)33

Butanol

Headspace analysis of polar compounds in air 509(1990)107

Study of rapid reaction kinetics by computerized gas chromatography with stroboscopic sampling 517(1990)175

2-Butanone

Gradient elution methods for predicting isocratic conditions (Review) 550(1991)425

Butenes

On-line chromatography with capillary columns and temperature programming. Determination of traces of 2-butenes in 1-butene and analysis of a reformat 509(1990)33

Study of rapid reaction kinetics by computerized gas chromatography with stroboscopic sampling 517(1990)175

Homogeneous catalysis studied by reversed-flow gas chromatography 550(1991)181

Butoxypropanols

Speciation of polyhydroxy compounds by gas chromatography-mass spectrometry with deuterium oxide chemical ionization 520(1990)209

Butyl acetate

Headspace analysis of polar compounds in air 509(1990)107

Butylate

Development of an automated high-performance liquid chromatographic method for the on-line pre-concentration and determination of trace concentrations of pesticides in drinking water 503(1990)167

Butylated hydroxytoluene

Quantitative analysis of additives in polymers using coupled supercritical fluid extraction-supercritical fluid chromatography 505(1990)273

Characterization of polymer additives by supercritical fluid chromatography and by liquid chromatography 505(1990)283

Butyltin compounds

Simultaneous determination of butyltin and phenyltin compounds in oysters by capillary gas chromatography 525(1990)105

1-[1-(3-Butynyloxymethyl)]-2-hydroxyimino-methyl-3-methylimidazolium chloride

Determination of the oximes 2-hydroxyimino methyl-3-methyl-1-[2-(3-methyl-3-nitrobutyloxy-methyl)]imidazolium chloride and 1-[1-(3-butynyloxymethyl)]-2-hydroxyiminomethyl-3-methyl-imidazolium chloride in plasma by high-performance liquid chromatography 527(1990)361

Butyrate

Optimization of isotachopheric analysis: use of the charge-based transient-state model 545(1991)249

4-Butyrolactones

Liquid chromatography–thermospray mass spectrometric study of N-acylamino dilactones and 4-butyrolactones derived from antimycin A 522(1990)179

Butyrophenones

Application of a computer-assisted high-performance liquid chromatographic multi-wavelength ultraviolet detection system to simultaneous toxicological drug analyses 506(1990)133

C**Cadaverine**

Modified high-performance liquid chromatographic determination of diamine oxidase activity in plasma 507(1990)333

Simultaneous determination of biogenic amines by reversed-phase high-performance liquid chromatography 508(1990)225

High-performance liquid chromatographic method for the determination of dansyl-polyamines 511(1990)177

Rapid determination by high-performance liquid chromatography of free fatty acids released from rat platelets after derivatization with monodansylcadaverine 515(1990)467

Cadmium

Preconcentration of divalent trace metals on chelating silicas followed by on-line ion chromatography 541(1991)443

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction 546(1991)251

Caeruloplasmin

Determination of iron(III) ion using ion chromatography with electrochemical detection and its application to the assay of the ferroxidase activity of caeruloplasmin 503(1990)237

Caffeic acid

Automated multiple development high-performance thin-layer chromatographic analysis of natural phenolic compounds 511(1990)396

Synthesis of esters of acetyloxycaffeic acids and their occurrence in poplar bud exudates 543(1991)113

Caffeine

Rapid determination of caffeine in green tea by gas–liquid chromatography with nitrogen–phosphorus-selective detection 505(1990)435

Simultaneous analysis of theophylline, caffeine and eight of their metabolic products in human plasma by gradient high-performance liquid chromatography 507(1990)199

Short-column liquid chromatographic assay for caffeine and chloramphenicol in serum 525(1990)464

Determination of anticonvulsant drugs and methyl xanthine derivatives in serum by liquid chromatography with direct injection: column-switching method using a new internal-surface reversed-phase silica support as a precolumn 529(1990)455

Simultaneous determination of cocaine and its metabolites with caffeine in rat serum microsomes by high-performance liquid chromatography 532(1990)95

Synthesis of mixed-functional-phase silica supports for liquid chromatography and their applications to assays of drugs in serum 535(1990)163

Calcitonin

Cation-exchange high-performance liquid chromatography of synthetic salmon calcitonin 536(1991)123

Phosphate-gradient high-performance liquid chromatographic method for the analysis of synthetic salmon calcitonin 536(1991)131

Calcium

Electrodialysis pretreatment system for ion chromatography of strongly acidic samples and its application to the determination of magnesium and calcium 539(1991)221

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction 546(1991)251

Optimization of the procedure for the determination of alkali and alkaline-earth elements in sea water by suppressed ion chromatography 546(1991)259

Calcium channel blockers

Chromatography of calcium channel blockers 531(1990)181

Calcium phosphate

High-performance liquid chromatographic separation of biomolecules using calcium phosphate supported on macroporous silica microparticles 504(1990)319

Calmodulin

Synthesis and protein-binding properties of spacer-free thioalkyl agaroses 521(1990)1

Purification of cloned trypanosomal calmodulin and preliminary NMR studies 539(1991)501

Calvatic acid

Reversed-phase high-performance liquid chromatographic study of the lipophilicity of a series of analogues of the antibiotic "calvatic acid" 547(1991)167

Camphene

Gas chromatographic separation of monoterpene hydrocarbon enantiomers on α -cyclodextrin 513(1990)315

Approach to direct chiral recognition of some terpenic hydrocarbon constituents of essential oils by gas chromatography systems via β -cyclodextrin complexation 543(1991)171

Chromatographic analysis of some commercial samples of camphene via cyclodextrin inclusion processes 543(1991)397

10-Camphorsulphonates

Determination of 10-camphorsulphonates in pharmaceutical formulations by high-performance liquid chromatography 511(1990)367

Camptothecin

Determination of camptothecin in biological fluids using reversed-phase high-performance liquid chromatography with fluorescence detection 530(1990)367

Candida albicans

Fatty acid contents of the yeast and mycelial phase of *Candida albicans* 533(1990)152

Cannabinoid acids

Determination of cannabinoid acids by high-performance liquid chromatography of their neutral derivatives formed by thermal decarboxylation. I. Study of the decarboxylation process in open reactors 520(1990)339

Caprolactam

Examination of organic trace contamination and thermo-oxidative deterioration of ϵ -caprolactam by high-performance liquid chromatography 508(1990)149

Packed column gas chromatography–capillary column gas chromatography–mass spectrometry coupling for the qualitative characterization of technical products 520(1990)175

Captan

Development of an automated high-performance liquid chromatographic method for the on-line pre-concentration and determination of trace concentrations of pesticides in drinking water 503(1990)167

Captopril

Determination of captopril in human blood by gas chromatography–negative-ion chemical ionization mass spectrometry with [$^{18}\text{O}_4$]captopril as internal standard 529(1990)299

Carazolol

High-performance liquid chromatographic method for the determination of carazolol in serum or plasma of pigs 527(1990)461

Carbadox

Optimization and ruggedness testing of the determination of residues of carbadox and metabolites in products of animal origin. Stability studies in animal tissues 541(1991)401

Carbamates

Development of an automated high-performance liquid chromatographic method for the on-line pre-concentration and determination of trace concentrations of pesticides in drinking water 503(1990)167

Determination of organophosphorus and carbamate pesticide standards by liquid chromatography with detection by inhibition of immobilized acetylcholinesterase 539(1991)47

Carbamazepine

Direct serum injection high-performance liquid chromatographic method for the simultaneous

determination of phenobarbital, carbamazepine and phenytoin 527(1990)389

Simultaneous determination of six antiepileptic drugs by capillary gas chromatography 527(1990)428

Determination of anticonvulsant drugs and methyl xanthine derivatives in serum by liquid chromatography with direct injection: column-switching method using a new internal-surface reversed-phase silica support as a precolumn 529(1990)455

Synthesis of mixed-functional-phase silica supports for liquid chromatography and their applications to assays of drugs in serum 535(1990)163

Simultaneous separation and determination (in serum) of phenytoin and carbamazepine and their deuterated analogues by high-performance liquid chromatography-ultraviolet detection for tracer studies 535(1990)271

Analysis of carbamazepine in serum by liquid chromatography with direct sample injection and surfactant-containing eluents 535(1990)293

Carbaryl

Development of an automated high-performance liquid chromatographic method for the on-line pre-concentration and determination of trace concentrations of pesticides in drinking water 503(1990)167

Determination of carbaryl and 1-naphthol in English apples and strawberries by combined gas chromatography-fluorescence spectrometry 547(1991)345

Carbazole

Solid-surface room-temperature phosphorescence detection for high-performance liquid chromatography 508(1990)37

Long-term use of liquid-crystalline stationary phase for separation and determination of polynuclear aromatic hydrocarbons in carbochemical products. Comparison of results obtained by different methods 509(1990)53

Carbendazim

Simultaneous determination of trace concentrations of benomyl, carbendazim (MBC) and nine other pesticides in water using an automated on-line pre-concentration high-

performance liquid chromatographic method 518(1990)242

Analyse par chromatographie liquide du diamino-2,3 phénazine et de l'hydroxy-2 amino-3 phénazine dans les carbendazimes techniques et formulés 518(1990)375

Liquid chromatographic determination of carbendazim in the presence of some normal soil constituents with photodiode-array detection 538(1991)480

Carbidopa

Simultaneous measurement of L-DOPA, its metabolites and carbidopa in plasma of Parkinsonian patients by improved sample pretreatment and high-performance liquid chromatographic determination 511(1990)167

Simultaneous high-performance liquid chromatographic analysis of carbidopa, levodopa and 3-O-methyldopa in plasma and carbidopa, levodopa and dopamine in urine using electrochemical detection 534(1990)87

Separation and estimation of small amounts of the enantiomers of carbidopa and methyldopa on a chiral stationary phase with L-phenylalanine as selector in ligand-exchange chromatography 545(1991)115

Carbofuran

Development of an automated high-performance liquid chromatographic method for the on-line pre-concentration and determination of trace concentrations of pesticides in drinking water 503(1990)167

Comparative study of some columns for direct determination of carbofuran by gas-liquid chromatography with nitrogen-specific detection 519(1990)359

Carbohydrates

see also Sugars and Saccharides

High-pH ion-exchange separation and electrochemical detection of alditols, carbohydrates and acidic sugars 503(1990)227

Preparative and analytical separation of oligosaccharides from κ -carrageenan 504(1990)369

Analysis of sugars by supercritical fluid chromatography using polar packed columns and light-scattering detection 505(1990)299

Retention behaviour of mono- and dicarboxylic acids, carbohydrates and alcohols in ion-exclusion chromatography 506(1990)157

Selective post-column liquid chromatographic determination of sugars in spent sulphite liquor with two enzymatic electrochemical detectors in parallel 506(1990)423

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

Studies on the chromatographic behaviour of some uronic acids and neutral sugars on an amino-bonded phase column 513(1990)227

Capillary zone electrophoresis of pyridylamino derivatives of maltooligosaccharides 514(1990)57

Constant-potential amperometric detector for carbohydrates at a nickel(III) oxide electrode for micro-scale flow-injection analysis and high-performance liquid chromatography 515(1990)213

Applications of high-performance liquid chromatography in bacteriology. I. Determination of metabolites (Review) 515(1990)415

Identification of a new minor iridoid glycoside in *Symplocos glauca* by thermospray liquid chromatography-mass spectrometry 515(1990)503

Indirect fluorescence detection of sugars separated by capillary zone electrophoresis with visible laser excitation 515(1990)639

High-performance liquid chromatographic separation of monosaccharides as their peracetylated ketoximes and aldnonitriles 519(1990)228

Gas-liquid chromatographic assay of the components of electrochemically reduced glucose solutions. Impurities in sorbitol samples 520(1990)185

Simultaneous determination of organic acids and sugars in apples by gas-liquid chromatography 520(1990)201

On-line sample clean-up of fermentation broths and substrates prior to the liquid

chromatographic separation of carbohydrates 523(1990)173

Chemical, physical and chromatographic properties of Superdex 75 prep grade and Superdex 200 prep grade gel filtration media 537(1991)17

Molecular interactions in liquid chromatography 537(1991)33

High-performance liquid chromatographic determination of the antibiotic cortalcerone 542(1991)200

Evaluation of vinylpyridine and vinylpyridinium polymers as column packings for high-performance liquid chromatography (Review) 544(1991)219

Ion chromatographic methods for the detection of starch hydrolysis products in ruminal digesta 546(1991)273

Gas chromatographic-mass spectrometric separation and characterization of methyl trimethylsilyl monosaccharides obtained from naturally occurring glycosides and carbohydrates 547(1991)299

High-performance liquid chromatography of reaction mixtures from the oxidation and degradation of lactose 549(1991)113

Chromatographic separation and examination of carbohydrate and phenolic components of the non-tannin fraction of black wattle (*Acacia mearnsii*) bark extract 550(1991)519

β -Carbolines

Determination of β -carbolines in foodstuffs by high-performance liquid chromatography and high-performance liquid chromatography-mass spectrometry 538(1991)331

Carbon-14

Detection of carbon-14 eluting from a capillary gas chromatograph using chemical reaction interface-mass spectrometry 527(1990)1

Carbonate

Comparative analysis of organic acids located on the surface of natural building stones by high-performance liquid, gas and ion chromatography 514(1990)241

Electrodialytic eluent generation and suppression. Ultralow background conductance suppressed anion chromatography 546(1991)159

Analysis of anion constituents of urine by inorganic capillary electrophoresis 546(1991)459

Carbon dioxide

Comparison of supercritical carbon dioxide and supercritical propane as mobile phases in supercritical fluid chromatography 505(1990)119

Sorption isotherms of mobile phase components in capillary supercritical fluid chromatography 505(1990)139

Determination of binary diffusion coefficients of organic compounds in supercritical carbon dioxide by supercritical fluid chromatography 505(1990)169

Flame infrared emission-flame ionization detector for gas chromatography 513(1990)21

Comparison of helium head pressure carbon dioxide and pure carbon dioxide as mobile phases in supercritical fluid chromatography 514(1990)309

Liquid and high-pressure carbon dioxide chromatography of β -blockers. Resolution of the enantiomers of nadolol 539(1991)55

Carbonic anhydrase

High-performance liquid chromatography of amino acids, peptides and proteins. XCVII. The influence of the gradient elution mode and displacer salt type on the retention properties of closely related protein variants separated by high-performance anion-exchange chromatography 506(1990)17

Application of low-angle laser light scattering detection in the field of biochemistry. Review of recent progress 506(1990)409

Carbonic anhydrase inhibitor

Development of direct stereoselective and non-stereoselective assays in biological fluids for the enantiomers of a thieno[2,3-*b*]thiopyran-2-sulfonamide, a topically effective carbonic anhydrase inhibitor 526(1990)461

Carbon monoxide

Flame infrared emission-flame ionization detector for gas chromatography 513(1990)21

Carbon tetrachloride

Improvement of activated carbon for air sampling 503(1990)33

Peculiarities of aromatic hydrocarbon retention in normal-phase high-performance liquid chromatography with eluents containing halide derivatives 520(1990)315

Carbonyl compounds

see also Aldehydes and Ketones

High-precision sampling of trace gas-borne volatiles by the dynamic solvent effect with a comparative review of alternative techniques 504(1990)21

Carbonyl reductase

Enantiospecific assay for mammalian carbonyl reductase by liquid chromatography with fluorescence detection 532(1990)65

Carboplatin

Determination of carboplatin in canine plasma by liquid chromatography with ultraviolet-visible detection and confirmation by atomic absorption spectroscopy 527(1990)447

(-)-Carbovir

Improved fluorometric high-performance liquid chromatographic assay for (-)-carbovir in rat blood and urine 534(1990)109

Carboxylases

High-performance liquid chromatographic determination of four kinds of biotin-containing carboxylase 529(1990)55

Carboxylic acids

see also Fatty acids and Organic acids

2,4-Dinitrophenylpyridium chloride, a novel and versatile reagent for the detection of amino acids, primary and secondary amines, thiols, thiolactones and carboxylic acids during planar chromatography 504(1990)456

Analysis of aliphatic and phenolic carboxylic acids by capillary supercritical fluid chromatography-Fourier-transform infrared microspectrometry 505(1990)179

Retention behaviour of mono- and dicarboxylic acids, carbohydrates and alcohols in ion-exclusion chromatography 506(1990)157

Mechanistic study on the derivatization of aliphatic carboxylic acids in aqueous non-ionic micellar systems 507(1990)351

2-(2,3-Naphthalimino)ethyl trifluoromethanesulphonate as a highly reactive ultraviolet and fluorescent labelling agent for the liquid chromatographic determination of carboxylic acids 508(1990)133

Gas chromatographic analysis and gas chromatographic-mass spectrometric identification of components in the cyclohexane-extractable fraction from contaminated sediment samples 508(1990)159

Separation of carboxylic acid enantiomers by gas chromatography after rapid derivatization with (*R*)- or (*S*)-1-phenylethylamine after activation by ethyl chloroformate 508(1990)333

Pentafluorophenyldiazoalkanes as novel derivatization reagents for the determination of sensitive carboxylic acids by gas chromatography-negative-ion mass spectrometry 508(1990)349

Comparative analysis of organic acids located on the surface of natural building stones by high-performance liquid, gas and ion chromatography 514(1990)241

Rapid method for esterification of trace levels of carboxylic acids for analysis by gas chromatography-electron-capture detection 516(1990)427

High-performance liquid chromatography on silica dynamically modified with hydrazinium derivatives 521(1990)19

Use of ion-exclusion chromatography for monitoring fatty acids produced by bacterial anaerobic degradation of tetrachloroethene in ground water 536(1991)193

Optimized isocratic separation of major carboxylic acids in wine 542(1991)277

Luminarin 4 as a labelling reagent for carboxylic acids in liquid chromatography with peroxyoxalate chemiluminescence detection 542(1991)295

Gas phase retention volume behavior of organic compounds on Carbotrap graphitized carbon 547(1991)488

Carboxymethylcellulose

Gas-liquid chromatographic analysis of carboxymethylcellulose and carboxymethylstarch 513(1990)338

S-Carboxymethyl-L-cysteine

Isotachopheresis in open-tubular fused-silica capillaries. Impact of electroosmosis on zone formation and displacement 516(1990)211

Carboxymethyl- β -1,3-glucan

High-performance gel permeation chromatography of water-soluble β -1,3-glucans 509(1990)213

Carboxymethyl-HVFM

Kinetic behaviour of a novel matrix ion exchanger, carboxymethyl-HVFM operated at high flow-rate 539(1991)255

3-Carboxy-4-methyl-5-propyl-2-furanpropanoic acid

Separation of albumin-binding ligands present in uremic serum by high-performance affinity chromatography 529(1990)424

Carboxymethylstarch

Gas-liquid chromatographic analysis of carboxymethylcellulose and carboxymethylstarch 513(1990)338

Cardiac glycosides

Separation and determination of lanatosides in *Digitalis lanata* leaves by high-performance liquid chromatography 508(1990)241

Chromatography of cardiac glycosides 531(1990)215

Lipophilic character of cardiac glycosides: correlation between R_M values and acute toxicity data in different animal species. 547(1991)523

Cardiovascular drugs

Applicability of new chiral stationary phases in the separation of racemic pharmaceutical compounds by high-performance liquid chromatography 547(1991)45

3-Carene

Gas chromatographic separation of monoterpene hydrocarbon enantiomers on α -cyclodextrin 513(1990)315

L-Carnitine

Chromatographic and non-chromatographic assay of L-carnitine family components (Review) 527(1990)247

L-Carnitine interference in gas chromatographic determination of total trimethylamine in urine: a novel assay method 532(1990)124

β -Carotene

Endogenous levels of β -carotene in human buccal mucosa cells by reversed-phase high-performance liquid chromatography 526(1990)47

Characterization of major carotenoids in water convolvulus (*Ipomoea aquatica*) by open-column, thin-layer and high-performance liquid chromatography 543(1991)147

Carotenoids

Separation and determination of individual carotenoids in a *Capsicum* cultivar by normal-phase high-performance liquid chromatography 502(1990)95

Rapid extraction and high speed liquid chromatography of *Nicotiana tabacum* leaf pigments 502(1990)431

High-performance liquid chromatographic determination of chloroplast pigments with optimized separation of lutein and zeaxanthin 508(1990)232

High-performance liquid chromatography of *cis-trans* isomers of neurosporene: discrimination of *cis* and *trans* configurations at the end of an open conjugated chain 519(1990)221

Characterization of major carotenoids in water convolvulus (*Ipomoea aquatica*) by open-column, thin-layer and high-performance liquid chromatography 543(1991)147

Carrageenan

Preparative and analytical separation of oligosaccharides from κ -carrageenan 504(1990)369

Carteolol

Chiral stationary phase for the facile resolution of β -adrenoceptor blocking agents 521(1990)122

Casein

High-performance liquid chromatography of casein hydrolysates phosphorylated and dephosphorylated. I. Peptide mapping 519(1990)299

Immobilized Fe^{3+} affinity chromatographic isolation of phosphopeptides 539(1991)425

Phenotyping of bovine milk proteins by reversed-phase high-performance liquid chromatography 548(1991)361

Casein kinase

Separation of acidic peptides by reversed-phase ion-pair chromatography. Analytical application to a series of acidic substrates of casein kinases 548(1991)329

Castalagin

Polyphenols of *Quercus robur* L. II. Preparative isolation by low-pressure and high-pressure liquid chromatography of heartwood ellagitannins 502(1990)107

Catechin

Micro method for the identification of proanthocyanidin using thiolysis monitored by high-performance liquid chromatography 540(1991)401

Catechin pentoside

Chemical characteristics of herbivore defenses in *Betula pendula* winter-dormant young stems 547(1991)367

Catechol

Separation and quantitation of phenolic compounds in mainstream cigarette smoke by capillary gas chromatography with mass spectrometry in the selected-ion mode 505(1990)365

Catecholamines

Simultaneous measurement of L-DOPA, its metabolites and carbidopa in plasma of Parkinsonian patients by improved sample pretreatment and high-performance liquid chromatographic determination 511(1990)167

Equilibrium of octadecylsilica gel with sodium dodecyl sulphate 515(1990)67

Detection and identification modes for the highly sensitive and simultaneous determination of various biogenic amines by coulometric high-performance liquid chromatography 515(1990)265

Determination of free catecholamines in human urine by direct injection of urine into a liquid chromatographic column-switching system with fluorimetric detection 515(1990)435

Determination of urinary free noradrenaline by reversed-phase high-performance liquid chromatography with on-line extraction and fluorescence derivatization 515(1990)621

Optimal conditions for long-term storage of biogenic amines for subsequent analysis by

column chromatography with electrochemical detection 518(1990)258

Study of the characteristics and analytical application of a capillary chromatograph with an electrochemical detector 520(1990)307

Simultaneous high-performance liquid chromatographic determination of norepinephrine, serotonin, acetylcholine and their metabolites in the cerebrospinal fluid of anaesthetized normotensive rats 526(1990)1

Proposal for the standardization of the calibration method for the assay of plasma catecholamines 526(1990)194

Fully automated high-performance liquid chromatographic assay for the analysis of free catecholamines in urine 530(1990)11

Simple approach for reversal of the epinephrine–norepinephrine elution order in ion-pair reversed-phase liquid chromatography 532(1990)394

Determination of plasma catecholamines via condensation with diphenylethylenediamine: simplification of the procedure 533(1990)166

Simultaneous high-performance liquid chromatographic analysis of carbidopa, levodopa and 3-O-methyl-dopa in plasma and carbidopa, levodopa and dopamine in urine using electrochemical detection 534(1990)87

Improvement of resolution in the capillary electrophoretic separation of catecholamines by complex formation with boric acid and control of electroosmosis with a cationic surfactant 538(1991)385

Improvements in automated analysis of catecholamine and related metabolites in biological samples by column-switching high-performance liquid chromatography 541(1991)273

High-performance liquid chromatographic determination of 1-3-(3,4-dihydroxyphenyl)-2-methylalanine (α -methyl-dopa) in human urine and plasma 541(1991)285

Optimization of Nafion-coated electrodes for selective detection in high-performance liquid chromatography 547(1991)1

Catechol-O-methyltransferase

Application of a metal capillary column in gas chromatographic determination of catechol-O-methyltransferase activity 549(1991)434

Catharanthine

Gas chromatographic–mass spectrometric analysis of major indole alkaloids of *Catharanthus roseus* 505(1990)429

Cations

Environmental applications of ion chromatography (Review) 504(1990)211

Separation of cations using methacrylate-based low-capacity cation exchangers 509(1990)369

Separation and detection of group I and II cations by ion chromatography 546(1991)229

Use of ion chromatography in agricultural research (Review) 546(1991)387

Separation of cations in buffered 1-methyl-3-ethylimidazolium chloride–aluminum chloride ionic liquids by ion chromatography 547(1991)484

Simultaneous analysis of anions and cations by single-column ion chromatography 549(1991)257

Cefaclor

High-performance liquid chromatographic determination of cephalosporin antibiotics using 0.3 mm I.D. columns 539(1991)215

Cefalozin

High-performance liquid chromatographic determination of cephalosporin antibiotics using 0.3 mm I.D. columns 539(1991)215

Cefamandole

Simultaneous determination of cefamandole and cefamandole nafate in human plasma and urine by high-performance liquid chromatography with column switching 528(1990)425

Synthesis of mixed-functional-phase silica supports for liquid chromatography and their applications to assays of drugs in serum 535(1990)163

Cefamandole nafate

Simultaneous determination of cefamandole and cefamandole nafate in human plasma and urine by high-performance liquid chromatography with column switching 528(1990)425

Cefaoridine

High-performance liquid chromatographic determination of cephalosporin antibiotics using 0.3 mm I.D. columns 539(1991)215

Cefmenoxime

Synthesis of mixed-functional-phase silica supports for liquid chromatography and their applications to assays of drugs in serum 535(1990)163

Cefotaxime

Synthesis of mixed-functional-phase silica supports for liquid chromatography and their applications to assays of drugs in serum 535(1990)163

Cefotiam

High-performance liquid chromatographic assay for cefotiam and d3-cefotiam in human serum 525(1990)484

Ceftizoxime

High-performance liquid chromatographic determination of cephalosporin antibiotics using 0.3 mm I.D. columns 539(1991)215

Ceftriaxone

High-performance liquid chromatographic determination of the binding of ceftriaxone to human serum albumin solution and albumin from diluted human serum 528(1990)415

D-Cellobiose

Selective post-column liquid chromatographic determination of sugars in spent sulphite liquor with two enzymatic electrochemical detectors in parallel 506(1990)423

Celoxylanases

Separation of the cellulolytic and xylanolytic enzymes of *Clostridium stercorarium* 521(1990)301

Cellulose

Adsorption chromatography on cellulose. VI. Further studies on the separation of D- and L-tryptophan on cellulose with aqueous solvents 510(1990)367

Cellulose, biotinylated

Studies on the interaction of a surface-bound ligand with a multi-valent high-molecular-weight ligate. The biotinylcellulose-avidin system 510(1990)23

Cellulose nitrates

Problems in the size-exclusion chromatography of cellulose nitrates: non-exclusion effects and universal calibration 522(1990)67

Central nervous system-active drugs

Applicability of new chiral stationary phases in the separation of racemic pharmaceutical compounds by high-performance liquid chromatography 547(1991)45

Cephalosporinase

Use of chromatofocusing for separation of β -lactamases. IX. Analytical chromatofocusing for the separation of a chromosomal cephalosporinase from *Proteus vulgaris* 1028 545(1991)189

Cephalosporins

Simple method for determination of the cephalosporin DQ-2556 in biological fluids by high-performance liquid chromatography 515(1990)547

High-performance liquid chromatographic determination of cephalosporin antibiotics using 0.3 mm I.D. columns 539(1991)215

Ceramics

Titania and zirconia: possible new ceramic microparticulates for high-performance liquid chromatography 515(1990)149

Cerium (IV)

Use of Ce(IV) oxidizing agent for the derivatization of polycyclic aromatic hydrocarbons for liquid chromatography-electrochemical detection 550(1990)585

Cetrimide

Retention of some organic electrolytes in ion-pair reversed-phase high-performance liquid and reversed-phase high-performance thin-layer chromatographic systems 520(1990)403

Cetylpyridinium chloride

Optimization of high-performance liquid chromatographic analysis with UV detection: light-scattering detection to establish the coelution of UV- and non-UV-absorbing constituents 513(1990)354

Cetyltrimethylammonium

Ion chromatography of inorganic iodine species using C_{18} reversed-phase columns coated with cetyltrimethylammonium 549(1991)265

Cetyltrimethylammonium bromide

Transient changes of mobile phase in the high-performance liquid chromatographic separation of priority pollutant phenols 507(1990)399

CGS 8515

Determination of the 5-lipoxygenase inhibitor (CGS 8515) in plasma by high-performance liquid chromatography using reductive electrochemical detection 534(1990)260

 α -Chaconine

High-performance liquid chromatographic determination of glycoalkaloids in potato products 508(1990)141

Chalcones

Resolution of complex mixtures of phenolics in poplar bud exudate by analysis of gas chromatography-mass spectrometry data 519(1990)145

Chelerythrine

Solid-phase extraction and fluorimetric detection of benzophenanthridine alkaloids from *Sanguinaria canadensis* cell cultures 519(1990)99

Determination of isoquinoline alkaloids in *Chelidonium majus* L. by ion-pair high-performance liquid chromatography 542(1991)193

Chelirubine

Solid-phase extraction and fluorimetric detection of benzophenanthridine alkaloids from *Sanguinaria canadensis* cell cultures 519(1990)99

Chelitopine

Determination of isoquinoline alkaloids in *Chelidonium majus* L. by ion-pair high-performance liquid chromatography 542(1991)193

Chemical warfare agents

Capillary column gas chromatography-mass spectrometry and gas chromatography-tandem mass spectrometry detection of chemical warfare agents in a complex airborne matrix 504(1990)259

Retention index monitoring of compounds of chemical defence interest using thermal desorption gas chromatography 538(1991)249

Detection of sarin and soman in a complex airborne matrix by capillary column ammonia chemical ionization gas chromatography-mass

spectrometry and gas chromatography-tandem mass spectrometry 541(1991)121

Chimassorb 944

Pyrolytic analysis of complex stabilizers in polypropylene 505(1990)375

Chirasil-Val

Immobilization of chiral phases for enantiomer separations in supercritical fluid and gas chromatography 540(1991)217

Chitin

Direct determination of acetic acid in strongly acidic hydrolysates of chitin and chitin-containing biological products by capillary gas chromatography 538(1991)431

Chitinase

Peptide separation by gel filtration high-performance liquid chromatography using a gradient elution system 545(1991)183

Chitosan

Direct determination of acetic acid in strongly acidic hydrolysates of chitin and chitin-containing biological products by capillary gas chromatography 538(1991)431

Chlobenzorex

Détection spécifique par chromatographie gazeuse-spectrométrie de masse des amines sympathomimétiques urinaires dans le cadre des contrôles antidopage 541(1991)109

Chloral hydrate

Determination of chloral hydrate metabolism in adult and neonate biological fluids after single-dose administration 528(1990)333

Chlorambucil

High-performance liquid chromatographic analysis of chlorambucil *tert.*-butyl ester and its active metabolites chlorambucil and phenylacetic mustard in plasma and tissue 534(1990)279

Chlorambucil *tert.*-butyl ester

High-performance liquid chromatographic analysis of chlorambucil *tert.*-butyl ester and its active metabolites chlorambucil and phenylacetic mustard in plasma and tissue 534(1990)279

Chloramphenicol

Rapid monitoring of chloramphenicol in microsamples of plasma by capillary gas chromatography with electron-capture detection 525(1990)454

Short-column liquid chromatographic assay for caffeine and chloramphenicol in serum 525(1990)464

Analysis of veterinary drugs using supercritical fluid chromatography and supercritical fluid chromatography-mass spectrometry 540(1991)257

Simultaneous determination of chloramphenicol and benzocaine in topical formulations by high-performance liquid chromatography 542(1991)515

Chlorate

Use of cyclodextrins in the isotachopheretic determination of various inorganic anions 518(1990)189

Ion chromatography in the manufacture of multilayer circuit boards 546(1991)369

Chlorhexidine

Simultaneous determination of thimerosal and chlorhexidine in solutions for soft contact lenses and its applications in stability studies 523(1990)321

Chloride

Use of high-performance liquid chromatography in the pharmaceutical industry 507(1990)141

Analysis of atmospheric precipitation by reversed-phase ion-pair chromatography 514(1990)362

Ion-exchange separation of inorganic anions on a HEMA 1000 Q-L column 520(1990)349

Use of β -diketonate anions as eluent in non-suppressed ion chromatography. Acetylacetonate eluent for the separation of fluoride and chloride 523(1990)257

Hollow-fibre membrane-based sample preparation device for the clean-up of brine samples prior to ion chromatographic analysis 538(1991)497

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Recent advances in the simultaneous determination of anions and silica in high-purity water 546(1991)209

On-column matrix elimination of high levels of chloride and sulfate in non-suppressed ion chromatography 546(1991)221

Ion chromatography for the analysis of household consumer products 546(1991)351

Analysis of anion constituents of urine by inorganic capillary electrophoresis 546(1991)459

Chlorinated benzenes

Separation of highly hydrophobic compounds by cyclodextrin-modified micellar electrokinetic chromatography 516(1990)23

Chlorinated phenols, fatty acid conjugates

Fatty acid conjugates of chlorinated phenols and their high-performance liquid chromatographic analysis 537(1991)85

Chlorine

Element-selective detection after supercritical fluid chromatography by means of a Surfatron plasma in the near-infrared spectral region 517(1990)477

Determination of impurities in thionyl chloride by gas chromatography 520(1990)163

Chlorite

Ion chromatography in the manufacture of multilayer circuit boards 546(1991)369

Chloroacetaldehyde

Derivatization-liquid chromatographic assay of chloroacetaldehyde in biological samples 518(1990)385

Chloroacrylic acid

Reversed-phase liquid chromatographic column switching for the trace-level determination of polar compounds. Application to chloroallyl alcohol in ground water 511(1990)243

Chloroallyl alcohol

Reversed-phase liquid chromatographic column switching for the trace-level determination of polar compounds. Application to chloroallyl alcohol in ground water 511(1990)243

Chlorobenzenes

Possibilities of enhancing the sensitivity of the determination of UV-absorbing compounds in high-performance liquid chromatography 550(1991)495

6-Chloro-2H-1,2,4-benzothiadiazine-1,1-dioxide
High-performance liquid chromatographic

method for studies on the photodecomposition kinetics of chlorothiazide 507(1990)151

α -Chlorochoalcone

Development and use of carbon adsorbents in the liquid chromatographic separation of isomers 506(1990)371

Chloro compounds

Oxygen enhancement of thermal electron capture in a non-radioactive discharge source for a quadrupole mass spectrometer 517(1990)87

Chlorodifluoromethane

Supercritical fluid extraction and chromatography of steroids with Freon-22 515(1990)515

Chloroform

Comparison of quarter-hourly on-line dynamic headspace analysis to purge-and-trap analysis of varying volatile organic compounds in drinking water sources 513(1990)47

Peculiarities of aromatic hydrocarbon retention in normal-phase high-performance liquid chromatography with eluents containing halide derivatives 520(1990)315

Chloroformates

Chiral chloroformates as transparent reagents for the resolution of metoprolol enantiomers by reversed-phase liquid chromatography 506(1990)593

(4-Chloro-2-methylphenoxy)acetic acid

Screening method for phenoxy acid herbicides in ground water by high-performance liquid chromatography of 9-anthryldiazomethane derivatives and fluorescence detection 541(1991)359

(4-Chloro-2-methylphenoxy)butyric acid

Screening method for phenoxy acid herbicides in ground water by high-performance liquid chromatography of 9-anthryldiazomethane derivatives and fluorescence detection 541(1991)359

2-(4-Chloro-2-methylphenoxy)propionic acid

Screening method for phenoxy acid herbicides in ground water by high-performance liquid chromatography of 9-anthryldiazomethane derivatives and fluorescence detection 541(1991)359

1-Chloro-2-nitrobenzene

Gas chromatographic and mass spectrometric determination of nitroaromatics in water 518(1990)21

7-Chloro-4-nitrobenzofurazon

Determination of collagen and protein turnover by high-performance liquid chromatography 526(1990)383

Chlorophenols

Charge-transfer chromatographic study on inclusion complex formation between two hydroxypropyl- β -cyclodextrins and some chlorophenols 509(1990)255

Capillary zone electrophoretic separation of chlorophenols in industrial waste water with on-column electrochemical detection 514(1990)389

Gas chromatographic determination of phenol compounds with automatic continuous extraction and derivatization 518(1990)59

Computer-assisted sample clean-up in liquid chromatography from thin-layer chromatographic data 550(1991)657

Chlorophenoxy acids

Determination of chlorophenoxy acids using high-performance liquid chromatography-particle beam mass spectrometry 542(1991)385

***m*-Chlorophenylpiperazine**

High-performance liquid chromatographic method for the analysis of plasma *m*-chlorophenylpiperazine 528(1990)228

Assay of *m*-chlorophenylpiperazine in plasma and brain of rat by capillary gas chromatography-mass spectrometry 533(1990)215

Chlorophyllides

High-performance liquid chromatography-continuous-flow fast atom bombardment mass spectrometry of chlorophyll derivatives 542(1991)373

Chlorophylls

Rapid extraction and high speed liquid chromatography of *Nicotiana tabacum* leaf pigments 502(1990)431

High-performance liquid chromatographic determination of chloroplast pigments with optimized separation of lutein and zeaxanthin 508(1990)232

High-performance liquid chromatography-continuous-flow fast atom bombardment mass spectrometry of chlorophyll derivatives 542(1991)373

Chloroplast pigments

Resolution of lutein and zeaxanthin using a non-encapped, lightly carbon-loaded C₁₈ high-performance liquid chromatographic column 543(1991)137

Chloroprene

Quantitative particle-size distributions by sedimentation field-flow fractionation with densimeter detector 550(1991)799

2-Chloro-1-propanol

Polymeric dimethylaminopyridinium reagents for derivatization of weak nucleophiles in high-performance liquid chromatography-ultraviolet/fluorescence detection 515(1990)337

Chloroprotham

Development of an automated high-performance liquid chromatographic method for the on-line pre-concentration and determination of trace concentrations of pesticides in drinking water 503(1990)167

Chloropyridines

Determination of chloropyridine isomers by gas chromatography and high-performance liquid chromatography in chlorpyrifos process development 540(1991)331

Chlorpyrifos

Determination of chloropyridine isomers by gas chromatography and high-performance liquid chromatography in chlorpyrifos process development 540(1991)331

Chloroquine

Assay method for the simultaneous determination of proguanil, chloroquine and their major metabolites in biological fluids 527(1990)490

Identification of a chloroquine artifact by gas chromatography-mass spectrometry 532(1990)400

Chlorosilanes

Chiral organosilicon compounds. II. Comparison of gas-liquid chromatographic and NMR analyses of enantiomeric alcohols 503(1990)437

Chlorothiazide

High-performance liquid chromatographic method for studies on the photodecomposition kinetics of chlorothiazide 507(1990)151

Chlorotriazines

Determination of chlorotriazines and their photolysis products by liquid chromatography

with photodiode-array and thermospray mass spectrometric detection 502(1990)275

Chlorpheniramine

Characteristics of ovomucoid-conjugated columns in the direct liquid chromatographic resolution of racemic compounds 511(1990)89

Chlorpyrifos

Determination of chlorpyrifos in water by large-volume direct aqueous injection capillary gas chromatography 503(1990)377

Chlorsulfuron

Characterization of the thermal decomposition products of the sulfonylurea herbicide chlorsulfuron 505(1990)395

Chlortetracycline

High-performance liquid chromatographic procedures in monitoring the production and quality control of chlortetracycline 509(1990)189

Chlorthalidone

Polymer-bound chiral polymers for use in enantiomer separations 540(1991)145

Chlorzoxazone

Estimation of the analgesic muscle relaxants chlorzoxazone and diazepam in human plasma by reversed-phase liquid chromatography 528(1990)407

3-[(3-Cholamidopropyl)dimethylammonio]-1-propanesulphonate

Surfactant-mediated hydrophobic interaction chromatography of proteins: gradient elution 518(1990)99

Cholecystokinin receptor

Electric properties of photoaffinity-labelled pancreatic A-subtype cholecystokinin receptor 511(1990)333

Cholestanetriol

Determination of a cholesterol oxide mixture by a single-run high-performance liquid chromatographic analysis using benzoylation 547(1991)105

Cholesterol

Quantitative determination of cholesterol in liposome drug products and raw materials by high-performance liquid chromatography 507(1990)157

Supercritical fluid extraction and chromatography of cholesterol in food samples 515(1990)509

Determination of α -tocopherol, free cholesterol, esterified cholesterols and triacylglycerols in human lipoproteins by high-performance liquid chromatography 515(1990)585

Simple and rapid thin-layer chromatographic method for quantitative measurement of free cholesterol in serum 532(1990)449

Determination of egg yolk cholesterol content by on-column capillary gas chromatography 540(1991)323

Rapid and sensitive method for the quantitation of non-polar lipids by high-performance thin-layer chromatography and fluorodensitometry 549(1991)387

Cholesterol oxides

Determination of a cholesterol oxide mixture by a single-run high-performance liquid chromatographic analysis using benzylation 547(1991)105

Cholesterol pelargonate

Modified sorbents in binary stationary phase systems in gas chromatography 508(1990)193

Cholesteryl chloroacetate

Supercritical fluid extraction and chromatography of cholesterol in food samples 515(1990)509

Choline

Improvements in the separation and detection of acetylcholine and choline using liquid chromatography and electrochemical detection 502(1990)337

Simultaneous high-performance liquid chromatographic determination of norepinephrine, serotonin, acetylcholine and their metabolites in the cerebrospinal fluid of anaesthetized normotensive rats 526(1990)1

Measurement of acetylcholine and choline in cerebrospinal fluid by high-performance liquid chromatography: failure to detect acetylcholine in normal human cerebrospinal fluid 529(1990)408

Determination of succinylcholine hydrolytic enzyme activity in human plasma 533(1990)23

Detection of choline and acetylcholine by high-performance liquid chromatography. Limitations, pitfalls, sample preparation 537(1991)514

Chorismate

High-performance liquid chromatographic assay of anthranilate synthase from plant cell cultures 547(1991)155

Chromium

Studies on the separation of Al^{III} , Co^{III} , Cr^{III} and Fe^{III} complexes with acetylacetonone by reversed-phase high-performance liquid chromatography 502(1990)221

Determination of dissolved hexavalent chromium in industrial wastewater effluents by ion chromatography and post-column derivatization with diphenylcarbazine 546(1991)335

Chromium complexes

Reversed-phase liquid chromatographic retention of geometrical isomers of tris(β -diketonato)-chromium(III) and tris(β -diketonato)-cobalt(III). Comparison with liquid-liquid partition in a dodecane-(methanol-water) system 547(1991)225

Chromium dioxide

Quantitative particle-size distributions by sedimentation field-flow fractionation with densimeter detector 550(1991)799

Chromium (III), EDTA complex

Anomalous bandspreading of ethylenediaminetetraacetato-chromium(III) ion in reversed-phase high-performance liquid chromatography. An example of slow equilibrium kinetics 545(1991)123

Chromosomal proteins, non-histone

Efficient large-scale purification of non-histone chromosomal proteins HMG1 and HMG2 by using Polybuffer-exchanger PBE94 530(1990)39

Chrysene

Three-dimensional network plots using colours for a fourth variable with binary mixtures of pentane and 1,4-dioxane under sub- and supercritical conditions 505(1990)109

Anomalous behavior of selected methyl-substituted polycyclic aromatic hydrocarbons in reversed-phase liquid chromatography 514(1990)111

Chymotrypsin

One-step purification of trypsin and α -chymotrypsin by affinity chromatography on Eupergit-aprotinin, a novel carrier for purification of serine proteases 510(1990)239

Affinity of trypsin for amidine derivatives immobilized on dextran-coated silica supports 548(1991)255

Chymotrypsinogen A

Binding capacities of hydroxyapatite for globular proteins 515(1990)193

High-performance liquid chromatography of proteins on a ceramic hydroxyapatite with volatile buffers 515(1990)521

Cibacron Blue

Competitive elution of lactate dehydrogenase from Cibacron Blue-bead cellulose with Cibacron Blue-dextran 510(1990)197

Purification of proteins on an epoxy-activated support by high-performance affinity chromatography 536(1991)95

Protein-ligand interactions studied on bovine serum albumin with free and polymer-bound Cibacron Blue F3G-A as ligand with reference to affinity partitioning 537(1991)219

Immobilized Cibacron Blue—leachables, support stability and toxicity on cultured cells 539(1991)355

Cibenzoline

Quantification of cibenzoline and its imidazole metabolite by high-performance liquid chromatography in human serum 528(1990)267

Cicloprolol

High-performance liquid and gas chromatographic methods for the determination of cicloprolol 525(1990)359

Cilastatin

High-performance liquid chromatographic determination of cilastatin and its major metabolite N-acetylcilastatin in rat plasma, urine and bile 534(1990)119

Cimetidine

Sensitive detection and determination of cimetidine in human tissues with high-performance liquid chromatography 534(1990)253

Cinnamates

Chromatographic behaviour of diastereoisomers. X. Thin-layer chromatographic retentions on silica of some (*E*)- and (*Z*)-oxazolones and related cinnamates as a function of mobile phase effects or Hammett constants 545(1991)161

Cinnamic acid

Gas chromatographic analysis of tropic, benzoic and cinnamic acids, biosynthetic tropane alkaloid precursors 539(1991)232

Cinoxate

Determination of sunscreen agents in cosmetic products by gas chromatography and gas chromatography-mass spectrometry 513(1990)321

Ciprofloxacin

High-performance liquid chromatographic determination of several quinolone antibacterials in medicated fish feed 514(1990)348

Simultaneous high-performance liquid chromatographic determination of ciprofloxacin, fenbufen and felbinac in rat plasma 530(1990)186

C.I. Reactive Blue 2

Design and applications of biomimetic anthraquinone dyes. III. Anthraquinone-immobilised C.I. Reactive Blue 2 analogues and their interaction with horse liver alcohol dehydrogenase and other adenine nucleotide-binding proteins 508(1990)109

Cisplatin

Stability-indicating high-performance liquid chromatographic method for the simultaneous determination of cisplatin and 5-fluorouracil in 0.9% sodium chloride for injection 528(1990)517

High-performance liquid chromatographic analysis of unchanged *cis*-diamminedichloro-platinum (cisplatin) in plasma and urine with post-column derivatization 529(1990)462

High-performance liquid chromatographic determination of *cis*-diamminedichloro-platinum (II) (cisplatin) as the *o*-phenylenediamine complex 530(1990)219

Citalopram

Simultaneous determination of citalopram, monodesmethylcitalopram and didesmethylcitalopram in plasma by high-performance liquid chromatography after column extraction 527(1990)226

Citrate

Ion chromatography for the analysis of household consumer products 546(1991)351

Analysis of anion constituents of urine by inorganic capillary electrophoresis 546(1991)459

Citric acid

Utilization of capillary isotachopheresis in the determination of organic acids in food 509(1990)283

Isotachopheretic separation of organic acids in biological fluids 516(1990)251

Citrinin

Rapid and sensitive detection of citrinin production during fungal fermentation using high-performance liquid chromatography 535(1990)317

Citrulline

Determination of citrulline and homocitrulline by high-performance liquid chromatography with post-column derivatization 532(1990)37

High-performance liquid chromatographic analysis of the unusual pathway of oxidation of L-arginine to citrulline and nitric oxide in mammalian cells 539(1991)433

Clarithromycin

Impurity profiling of clarithromycin using high-performance liquid chromatography with ultraviolet detection 502(1990)351

Estimation and identification of non-polar compounds in clarithromycin bulk drug by high-performance liquid chromatography 540(1991)422

Clenbuterol

Determination of clenbuterol in bovine plasma and tissues by gas chromatography–negative-ion chemical ionization mass spectrometry 518(1990)41

Rapid determination of clenbuterol residues in urine by high-performance liquid chromatography with on-line automated sample processing using immunoaffinity chromatography 519(1990)323

Clindamycin

High-performance liquid chromatography of clindamycin and clindamycin phosphate with electrochemical detection 503(1990)217

Clindamycin phosphate

High-performance liquid chromatography of clindamycin and clindamycin phosphate with electrochemical detection 503(1990)217

Clomipramine

Rapid and simple high-performance liquid chromatographic determination of tricyclic antidepressants for routine and emergency serum analysis 536(1991)319

Clonazepam

Simple and sensitive method for monitoring clonazepam in human plasma and urine by high-performance liquid chromatography 529(1990)210

Clopenthixol

Controlling the retention of clopenthixol and other basic drug substances by reversed-phase ion-pair chromatography on bonded-phase materials using two counter-ions of opposite charge 523(1990)217

***Clostridium sordellii* cytotoxin**

Fast purification of *Clostridium sordellii* cytotoxin 528(1990)357

Clothiazepam

Collection of analytical data for benzodiazepines and benzophenones. Appendix 538(1991)277

Cloxacillin

High-performance liquid chromatographic method for the determination of cloxacillin in commercial preparations and for stability studies 549(1991)410

Clozapine

Combination of positron emission tomography with liquid chromatography in neuropharmacologic research 507(1990)303

High-performance liquid chromatographic procedure for the determination of clozapine, haloperidol, droperidol and several benzodiazepines in plasma 525(1990)218

Coagulation factors

Large-scale purification of factor VIII by affinity chromatography: optimization of process parameters 503(1990)103

Novel media for chromatography and immobilization using a radiation grafting technique 510(1990)115

Rapid high-performance liquid chromatographic protein quantitation of purified recombinant Factor VIII containing interfering substances 512(1990)213

Effect of feed flow-rate, antigen concentration and antibody density on immunoaffinity purification of coagulation factor IX 522(1990)153

Coal tars

Quantitative structure-type analysis of hetero compounds-hydrocarbon mixtures. Analysis of S-heterocyclics and ketones from brown coal tars 509(1990)27

Cobalamins

High-performance liquid chromatographic separation and dual competitive binding assay of corrinoids in biological material 529(1990)81

Cobalt

Studies on the separation of Al^{III}, Co^{III}, Cr^{III} and Fe^{III} complexes with acetylacetone by reversed-phase high-performance liquid chromatography 502(1990)221

Preconcentration of divalent trace metals on chelating silicas followed by on-line ion chromatography 541(1991)443

Charged surface and mass transfer in dynamic ion exchangers 546(1991)17

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction 546(1991)251

Cobalt chloride

Purification of a amylase-pullulanase bifunctional enzyme by high-performance size-exclusion and hydrophobic-interaction chromatography 512(1990)131

Cobalt complexes

Paper chromatographic studies of metal complexes. II. Comparison of square planar and octahedral complexes 504(1990)464

Reversed-phase liquid chromatographic retention of geometrical isomers of tris(β -diketonato)-chromium(III) and tris(β -diketonato)-cobalt(III). Comparison with liquid-liquid partition in a dodecane-(methanol-water) system 547(1991)225

Cobinamide

High-performance liquid chromatographic separation and dual competitive binding assay of corrinoids in biological material 529(1990)81

Separation and study of corrinoid cobalt-ligand isomers by high-performance liquid chromatography 536(1991)185

High-performance liquid chromatographic analysis of the (cyanoquo) stereoisomers of several putative vitamin B₁₂ precursors 537(1991)235

Cobinic acid pentaamide

Separation and study of corrinoid cobalt-ligand isomers by high-performance liquid chromatography 536(1991)185

High-performance liquid chromatographic analysis of the (cyanoquo) stereoisomers of several putative vitamin B₁₂ precursors 537(1991)235

Cobyric acid

Separation and study of corrinoid cobalt-ligand isomers by high-performance liquid chromatography 536(1991)185

High-performance liquid chromatographic analysis of the (cyanoquo) stereoisomers of several putative vitamin B₁₂ precursors 537(1991)235

Cocaine

Isolation, identification and separation of isomeric truxillines in illicit cocaine 504(1990)391

Comparison of octadecyl-bonded alumina and silica for reversed-phase high-performance liquid chromatography 505(1990)307

Microassay for the simultaneous determination of cocaine, norcocaine, benzoylecgonine and benzoynorecgonine by high-performance liquid chromatography 525(1990)113

Determination of cocaine and norcocaine in plasma and cell cultures using high-performance liquid chromatography 526(1990)447

Simultaneous determination of cocaine and its metabolites with caffeine in rat serum microsomes by high-performance liquid chromatography 532(1990)95

Cochineal Red

Isotachopheresis of some synthetic colorants in foods 545(1991)413

α -Codeimethine

Assay of semi-synthetic codeine base with simultaneous determination of α -codeimethine and O⁶-codeine methyl ether as by-product impurities by high-performance liquid chromatography 519(1990)250

Codeine

Extraction of major alkaloids from poppy straw with near-critical mixtures of carbon dioxide and polar modifiers 505(1990)247

Comparison of octadecyl-bonded alumina and silica for reversed-phase high-performance liquid chromatography 505(1990)307

Assay of semi-synthetic codeine base with simultaneous determination of α -codeimethine and O⁶-codeine methyl ether as by-product impurities by high-performance liquid chromatography 519(1990)250

Fast reliable assay for morphine and its metabolites using high-performance liquid chromatography and native fluorescence detection 525(1990)379

Separation of opium alkaloids by thin-layer chromatography combined with flame ionization detection using the peak pyrolysis method 547(1991)538

O⁶-Codiene methyl ether

Assay of semi-synthetic codeine base with simultaneous determination of α -codeimethine and O⁶-codeine methyl ether as by-product impurities by high-performance liquid chromatography 519(1990)250

Coenzyme A thioesters

Combined high-performance liquid chromatographic-continuous-flow fast atom bombardment mass spectrometric analysis of acylcoenzyme A compounds 527(1990)289

Colchicine

Determination of the antimetabolic agents N-desacetylcolchicine, demecolcine and colchicine in serum and urine 525(1990)411

Collagen

Development and validation of a high-performance liquid chromatographic method for the determination of desmosines in tissues 507(1990)51

Determination of collagen and protein turnover by high-performance liquid chromatography 526(1990)383

Polyacrylamide gel electrophoresis and immunoblotting of native collagen molecules using the Phast system. Application to type XI collagen 530(1990)432

Collagen cross-links

Rapid assay for hard tissue collagen cross-links using isocratic ion-pair reversed-phase liquid chromatography 525(1990)43

Colloids

Potential-barrier field-flow fractionation, a versatile new separation method 517(1990)345

Use of field-flow fractionation to study pollutant-colloid interactions 517(1990)435

Complement factor C3

Two-dimensional electrophoresis: agarose gel isotachopheresis followed by sodium dodecyl sulphate-polyacrylamide electrophoresis 545(1991)343

Use of discrete spacers for the separation of proteins by gel isotachopheresis 545(1991)391

Conalbumin

Adsorption behaviour of albumin and conalbumin on TSK-DEAE 5PW anion exchanger 504(1990)335

Use of the sodium salt of poly(vinylsulfonic acid) as a low-molecular-weight displacer for protein separations by ion-exchange displacement chromatography 519(1990)87

Effect of sodium dodecyl sulphate in protein samples on separation with free capillary zone electrophoresis 545(1991)397

Concanavalin A

Isoelectric focusing studies of concanavalin A and the lentil lectin 502(1990)131

Effect of chain length of oligosaccharide in high-performance affinity chromatography of a lectin on oligosaccharide-immobilized columns 502(1990)297

Preparative affinity chromatography of proteins. Influence of the physical properties of the base matrix 503(1990)93

High-performance affinity chromatography of concanavalin A 510(1990)95

Behaviour of concanavalin A on DEAE-Sephadex and CM-Sephadex 537(1991)460

Contrast agents

Determination of partition coefficients of non-ionic contrast agents by reversed-phase high-performance liquid chromatography 507(1990)293

Copolymers

Preliminary results on the gas chromatographic evaluation of interpenetrating polymer networks prepared from porous polymer beads 502(1990)393

Separation of poly(styrene-vinyl acetate) block copolymers by liquid adsorption chromatography 503(1990)411

Achievements and uses of critical conditions in the chromatography of polymers 507(1990)487

Phase transition chromatography of polyesters on macroporous glycidyl methacrylate-ethylene dimethacrylate copolymers 509(1990)233

Theoretical aspects of the chromatographic analysis of heterogeneous polymers 511(1990)49

Poly(styrene-dimethylsiloxane) block copolymer as a stationary phase for capillary gas chromatography 511(1990)390

Characteristics of C₄- and C₈-bonded vinyl alcohol copolymer gels for reversed-phase high-performance liquid chromatography 515(1990)175

Sample remaining in an ODS column after compositional fractionation of copolymers by high-performance liquid chromatography 547(1991)429

Copolymers, random

Theoretical aspects of the chromatographic analysis of heterogeneous polymers 511(1990)49

Copper

High-performance liquid chromatographic study of ligand-exchange reactions of fluorinated metal β-diketone chelates 517(1990)185

Simultaneous determination of molybdenum, vanadium, gallium, copper, iron and indium as

8-quinolinolate complexes by high-performance liquid chromatography 539(1991)225

Preconcentration of divalent trace metals on chelating silicas followed by on-line ion chromatography 541(1991)443

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction 546(1991)251

Copper acetylacetonates

Chemically bonded chelates as selective complexing sorbents for gas chromatography. I. Alkenes 547(1991)259

Copper-chelate complexes

Chiral copper-chelate complexes alter selectivities in metal affinity protein partitioning 543(1991)345

Copper complexes

Paper chromatographic studies of metal complexes. II. Comparison of square planar and octahedral complexes 504(1990)464

Copper(II)-1,3-diaminopropane-cellulose

Separation of enantiomers using polymeric copper-amine-cellulose columns 513(1990)370

Copper(II)-iminodiacetic acid

Copper(II)-iminodiacetic acid chelating resin as a stationary phase in the immobilized metal ion affinity chromatography of some aromatic amines 515(1990)169

Coptisine

Determination of isoquinoline alkaloids in *Chelidonium majus* L. by ion-pair high-performance liquid chromatography 542(1991)193

Corrinoids

High-performance liquid chromatographic separation and dual competitive binding assay of corrinoids in biological material 529(1990)81

Separation and study of corrinoid cobalt-ligand isomers by high-performance liquid chromatography 536(1991)185

Corrosion inhibitor

Direct determination of corrosion inhibitor in aviation fuel by a column-switching technique using gel-permeation chromatography 508(1990)259

Cortalcerone

High-performance liquid chromatographic determination of the antibiotic cortalcerone 542(1991)200

Corticosteroids

Separation and determination of lipophilic corticosteroids and benzothiazepin analogues by micellar electrokinetic chromatography using bile salts 513(1990)279

Effect of urea addition in micellar electrokinetic chromatography 545(1991)359

Corticosterone

Analysis of corticosterone in rat urine by high-performance liquid chromatography and fluorimetry using post-column reaction with sulphuric acid 528(1990)453

Cortisol

Semi-automated high-performance liquid chromatographic method for the simultaneous assay of plasma cortisol and 11-deoxycortisol in the metyrapone test 526(1990)180

Cotinine

Nicotine metabolites in the urine of smokers 525(1990)193

Determination of normicotine in smokers' urine by gas chromatography following reductive alkylation to N'-propylnornicotine 525(1990)349

Cotinine-N-oxide

Determination of normicotine in smokers' urine by gas chromatography following reductive alkylation to N'-propylnornicotine 525(1990)349

Coumachlor

(R)- and (S)-Naphthylethylcarbamate-substituted β -cyclodextrin bonded stationary phases for the reversed-phase liquid chromatographic separation of enantiomers 539(1991)83

p-Coumaric acid

Optimization of electrochemical detection in the high-performance liquid chromatography of lignin phenolics from lignocellulosic by-products 507(1990)439

Coumarin 343

Indirect fluorescence detection of sugars separated by capillary zone electrophoresis with visible laser excitation 515(1990)639

Coumarins

Optimization of the high-performance liquid chromatography of coumarins in *Angelica archangelica* with reference to molecular structure 507(1990)367

Determination of nine flavonoids and coumarins in licorice root by high-performance liquid chromatography 513(1990)247

Creatine

Separation of anionic and cationic compounds of biomedical interest by high-performance liquid chromatography on porous graphitic carbon 515(1990)183

Simultaneous determination of creatine, uric acid and creatinine by high-performance liquid chromatography with direct serum injection and multi-wavelength detection 525(1990)265

Application and validation of an ion-exchange high-performance liquid chromatographic method for measuring adenine nucleotides, creatine and creatine phosphate in mouse brain 527(1990)31

Creatine kinase MM

Clinical application of subforms of creatine kinase MM and macro creatine kinases 526(1990)423

Creatine phosphate

Application and validation of an ion-exchange high-performance liquid chromatographic method for measuring adenine nucleotides, creatine and creatine phosphate in mouse brain 527(1990)31

Creatinine

Separation of anionic and cationic compounds of biomedical interest by high-performance liquid chromatography on porous graphitic carbon 515(1990)183

Simultaneous determination of creatine, uric acid and creatinine by high-performance liquid chromatography with direct serum injection and multi-wavelength detection 525(1990)265

Determination of creatinine-related urinary uracil excretion in children by high-performance liquid chromatography 525(1990)277

Determination of creatinine in serum by high-performance liquid chromatography: a comparison of three ion-exchange methods 527(1990)21

Simultaneous determination of vanillylmandelic acid, homovanillic acid and creatinine in urine by reversed-phase ion-pair chromatography 530(1990)418

Cresols

Separation and quantitation of phenolic compounds in mainstream cigarette smoke by capillary gas chromatography with mass spectrometry in the selected-ion mode 505(1990)365

Gas chromatographic determination of phenol compounds with automatic continuous extraction and derivatization 518(1990)59

Determination of phenol, *m*-, *o*- and *p*-cresol, *p*-aminophenol and *p*-nitrophenol in urine by high-performance liquid chromatography 535(1990)311

Crodamide

Characterization of polymer additives by supercritical fluid chromatography and by liquid chromatography 505(1990)283

Cromakalim

Direct determination of the antihypertensive agent Cromakalim and its major metabolites in human urine by high-performance liquid chromatography 515(1990)597

Crown ethers

Preparation and gas chromatographic characterization of some immobilized crown ether-polysiloxane stationary phases 504(1990)279

Resolution of free aromatic amino acid enantiomers by host-guest complexation using reversed-phase liquid chromatography 521(1990)134

Use of crown ethers in the isotachophoretic determination of metal ions 523(1990)281

Column-friendly reversed-phase high-performance liquid chromatography of peptides and proteins using formic acid with sodium chloride and dynamic column coating with crown ethers 539(1991)37

Crown ethers as stationary phases in gas chromatography. Comparison between dibenzo-18-crown-6, dibenzo-24-crown-8 and dicyclohexano-24-crown-8 with respect to polarity, selectivity and stability 543(1991)179

Application of macrocyclic ligands to ion chromatography (Review) 546(1991)73

Cryomazine

High-performance liquid chromatographic separation of cryomazine and its metabolite melamine 505(1990)413

Cryptands

Application of macrocyclic ligands to ion chromatography (Review) 546(1991)73

Cryptotanshinone

High-performance liquid chromatography of abietane-type compounds 542(1991)317

Crystallins

Molecular mass distribution of water-soluble crystallins from the human foetal lens during development 529(1990)277

Crystal violet

Post-column reaction for simultaneous analysis of chromatic and leuco forms of malachite green and crystal violet by high-performance liquid chromatography with photometric detection 536(1991)217

Toroidal coil centrifugal partition chromatography, a method for measuring partition coefficients 538(1991)119

CV-3988

Determination of a platelet activating factor antagonist (CV-3988): methodology and clinical application 526(1990)515

Cyanate

Use of cyclodextrins in the isotachophoretic determination of various inorganic anions 518(1990)189

Cyanazine

Determination of chlorotriazines and their photolysis products by liquid chromatography with photodiode-array and thermospray mass spectrometric detection 502(1990)275

Cyanide

Simultaneous gas chromatographic determination of cyanide, iodide, nitrite, sulphide and thiocyanate anions by derivatization with pentafluorobenzyl bromide and using a kryptand as phase-transfer catalyst 502(1990)257

Determination of free cyanide in gold cyanidation process liquors by ion-interaction

chromatography with post-column derivatization 550(1991)559

4-Cyano-5,5-bis(4-methoxyphenyl)-4-pentenoic acid

Determination of 4-cyano-5,5-bis(4-methoxyphenyl)-4-pentenoic acid in human plasma and platelets by gas chromatography-mass spectrometry 528(1990)199

Cyanocobalamin

Determination of vitamin B₁₂ in multivitamin-multimineral tablets by high-performance liquid chromatography after solid-phase extraction 541(1991)383

3-Cyanoformazan

Formazan derivatives as the precolumn derivatization reagents in a coupled high-performance liquid chromatographic-spectrophotometric system for trace metal determination 515(1990)603

Cyanogen chloride

Chromatographic analysis of chemical warfare agents (Review) 503(1990)293

Cyanosilicones

Influence of adsorption at the gas-liquid interface on the determination of gas chromatographic retention indices on open-tubular columns coated with cyanosilicones 502(1990)1

Cyanuric chloride

Novel silica-based strong anion exchanger for single-column ion chromatography 515(1990)49

Cyclamate

Ion chromatography for the analysis of household consumer products 546(1991)351

Cyclic adenosine monophosphate

High-performance liquid chromatographic determination of 3',5'-cyclic adenosine monophosphate in human platelets 527(1990)421

Measurement of adenine nucleotide levels with an adenine analyser as an index of freshness of porgy 528(1990)305

Determination of adenosine and cyclic adenosine monophosphate in urine using solid-phase extraction and high-performance liquid chromatography with fluorimetric detection 529(1990)437

Cyclic *n*-alkyl boronates

Gas chromatography of homologous esters. XXXIV. Alkyl borate and boronate esters 550(1991)155

Cycloalkanes

Selectivity of carbon packing materials in comparison with octadecylsilyl- and pyrenylethylsilylsilica gels in reversed-phase liquid chromatography 549(1991)29

Cyclodextrins

Acylation effects on chiral recognition of racemic amines and alcohols by new polar and non-polar cyclodextrin derivative-gas chromatographic phases 502(1990)154

Enantiomer separation of chiral barbiturates and of α -lipoic acid by capillary gas chromatography with modified cyclodextrins as chiral stationary phases 503(1990)256

Direct liquid chromatographic separation of enantiomeric and diastereomeric terpenic alcohols as β -cyclodextrin inclusion complexes 503(1990)266

Determination by high-performance liquid chromatography of the binding properties of charged β -cyclodextrin derivatives with drugs 503(1990)453

Displacement chromatography on cyclodextrin-silicas. III. Enantiomer separations 506(1990)481

Chromatographic behaviour of cyclodextrin complexes of NADH and NADP 508(1990)127

Charge-transfer chromatographic study on inclusion complex formation between two hydroxypropyl- β -cyclodextrins and some chlorophenols 509(1990)255

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

(*S*)-2-Hydroxypropyl- β -cyclodextrin, a new chiral stationary phase for reversed-phase liquid chromatography 513(1990)181

Gas chromatographic separation of monoterpene hydrocarbon enantiomers on α -cyclodextrin 513(1990)315

Reversed-phase chromatographic separation of selected hydroxyl aromatics with β -cyclodextrin as a mobile phase additive 514(1990)19

Separation of highly hydrophobic compounds by cyclodextrin-modified micellar electrokinetic chromatography 516(1990)23

Retention of benzo[*a*]pyrene on cyclodextrin-bonded phases 516(1990)355

Use of cyclodextrins in the isotachophoretic determination of various inorganic anions 518(1990)189

Capillary electrophoretic separations of peptides using micelle-forming compounds and cyclodextrins as additives 519(1990)189

Chromatographic study of the interactions of hydrocarbons with cyclodextrins and their derivatives in the gas–solid system 520(1990)105

High-performance liquid chromatographic method for direct resolution of the indobufen enantiomeric components 520(1990)373

Effects of mobile phase composition on the reversed-phase separation of dipeptides and tripeptides with cyclodextrin-bonded-phase columns 522(1990)143

Chromatographic behaviour of cyclodextrin complexes of nucleotides, nucleosides and their bases 523(1990)293

Changes in the enthalpy and entropy of hydroxyl aromatics in reversed-phase liquid chromatography with β -cyclodextrin in the mobile phase 537(1991)61

Semi-preparative separation of polyhydroxylated sterols using a β -cyclodextrin high-performance liquid chromatography column 539(1991)15

Liquid chromatographic separation of the enantiomers of dinitrophenyl amino acids using a β -cyclodextrin-bonded stationary phase 543(1991)105

Chiral high-performance liquid chromatography of aromatic cyclic dipeptides using cyclodextrin stationary phases 543(1991)299

Use of cyclodextrins in capillary zone electrophoresis. Resolution of terbutaline and propranolol enantiomers 545(1991)437

Stereoselectivity of α -, β - and γ -cyclodextrin complexation relative to *cis*–*trans* acyclic alkenes and cyclooctenes under conditions of gas–liquid chromatography 547(1991)283

Separation of water- and fat-soluble vitamins by micellar electrokinetic chromatography 547(1991)419

Cyclohexanol

Comparison of sorbents for solid-phase extraction of polar compounds from water 509(1990)123

Cyclohexanone

Comparison of sorbents for solid-phase extraction of polar compounds from water 509(1990)123

Cyclooctenes

Stereoselectivity of α -, β - and γ -cyclodextrin complexation relative to *cis*–*trans* acyclic alkenes and cyclooctenes under conditions of gas–liquid chromatography 547(1991)283

Cycloolefins

Chromatographic study of methylcyclopentadiene dimers and iso-dimers and determination of their boiling points 508(1990)363

Cyclopentenones

Analytical and preparative resolution of enantiomers of prostaglandin precursors and prostaglandins by liquid chromatography on derivatized cellulose chiral stationary phases 511(1990)97

Cyclosporin A

Improved high-performance liquid chromatographic method for analysis of cyclosporin A using an automated sample processor 525(1990)123

Cyclosporins

Fully automatic high-performance liquid chromatographic optimization 550(1991)27

Cyproterone acetate

Determination of megestrol acetate and cyproterone acetate in serum of patients with advanced breast cancer by high-performance liquid chromatography 529(1990)145

Cystathionine

Determination of N-monoacetylcystathionine in biological samples using isotachophoresis 526(1990)550

Cysteamine

High-performance liquid chromatographic determination of aliphatic thiols with acryloylacrylic acids as fluorogenic precolumn derivatization reagents 507(1990)451

Cysteine

High-performance liquid chromatographic determination of aliphatic thiols with acryloylacrylic acids as fluorogenic precolumn derivatization reagents 507(1990)451

Identification of peptides containing aromatic amino acids, cysteine, iodotyrosine and iodothyronine by high-performance liquid chromatography with photodiode-array detection 512(1990)255

High-performance liquid chromatography of thiazolidinic compounds 514(1990)80

High-performance liquid chromatography of thiols with differential pulse polarographic detection of the catalytic hydrogen evolution current 515(1990)257

High-performance liquid chromatography of sulfur-containing amino acids and related compounds with amperometric detection at a modified electrode 543(1991)226

Cysteine protease inhibitor

High-performance liquid chromatographic determination of a cysteine protease inhibitor and its ethyl ester in mouse serum and muscle by pre-column fluorescence derivatization 526(1990)77

Cysteinyl leukotrienes

Capillary isotachopheric determination of cysteinyl leukotrienes 545(1991)375

Cystine

High-performance liquid chromatography of sulfur-containing amino acids and related compounds with amperometric detection at a modified electrode 543(1991)226

Cytidine deaminase

Assay of cytosine and cytidine deaminases by means of reversed-phase high-performance liquid chromatography 512(1990)395

Cytidine triphosphate synthase

Characterization of temperature-sensitive cytidine triphosphate synthase mutations in bacteria by high-performance liquid chromatography 512(1990)403

Cytochrome b₆f

Purification of membrane protein complexes isolated from a cyanobacterial thylakoid membrane by high-performance liquid chromatography 512(1990)219

Cytochrome c

Modification of the selectivity of a reversed-phase high-performance liquid chromatographic system by binding sodium dodecyl sulphate to peptides 507(1990)45

Optimization of high-performance liquid chromatographic peptide separations with alternative mobile and stationary phases 512(1990)273

Tryptic fingerprinting on a poly(styrene-divinylbenzene) reversed-phase column 512(1990)315

Binding of lysozyme on the surface of entrapped phosphatidylserine-phosphatidylcholine vesicles and an example of high-performance lipid vesicle surface chromatography 512(1990)377

Amino acid analysis by high-performance liquid chromatography with methanesulfonic acid hydrolysis and 9-fluorenylmethylchloroformate derivatization 514(1990)227

Evaluation of ammonium acetate as a volatile buffer for high-performance hydrophobic-interaction chromatography 515(1990)279

High-performance liquid chromatography of proteins on a ceramic hydroxyapatite with volatile buffers 515(1990)521

Sensitivity considerations for large molecule detection by capillary electrophoresis-electrospray ionization mass spectrometry 516(1990)157

Capillary electrophoretic separations of peptides using micelle-forming compounds and cyclodextrins as additives 519(1990)189

Capillary electrophoretic separation in both H₂O- and ²H₂O-based electrolytes can provide more information on tryptic digests 547(1991)551

Protein separation with aqueous-aqueous polymer systems by two types of counter-current chromatographs 550(1991)695

Cytochrome c oxidase

Rapid purification of cytochrome c oxidase from *Paracoccus denitrificans* 521(1990)291

Cytochrome P-450

Analytical fractionation of microsomal cytochrome P-450 isoenzymes from rat liver by high-performance ion-exchange chromatography 521(1990)251

Cytokine receptors

Purification of soluble cytokine receptors from normal human urine by ligand-affinity and immunoaffinity chromatography 510(1990)331

Cytokinins

Determination of zeatin and zeatin riboside in plant tissue by solid-phase extraction and ion-exchange chromatography 504(1990)197

Cytosine deaminase

Assay of cytosine and cytidine deaminases by means of reversed-phase high-performance liquid chromatography 512(1990)395

Cytotoxins

Fast purification of *Clostridium sordellii* cytotoxin 528(1990)357

D **β -Damascenone**

Thermal desorption- and sniffing-mass spectrometric monitoring of enriched trace compounds by means of a "live total transfer system" 547(1991)516

Dansyl chloride

Automated amino acid analysis using precolumn derivatization with dansylchloride and reversed-phase high-performance liquid chromatography 504(1990)129

Dansyl hydrazones

Sensitive assay system for bile acids and steroids having hydroxyl groups utilizing high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 515(1990)577

Dantrolene

Determination of a dantrolene metabolite, 5-(*p*-nitrophenyl)-2-furoic acid, in plasma and urine by

high-performance liquid chromatography 526(1990)575

Daunorubicin

Sensitive method for the determination of daunorubicin and all its known metabolites in plasma and heart by high-performance liquid chromatography with fluorescence detection 529(1990)359

N-Deacetyl-14-O-demethylappaconitine

Separation and characterization of the metabolic products of lappaconitine in rat urine by high-performance liquid chromatography 526(1990)109

N-Deacetyl-16-O-demethylappaconitine

Separation and characterization of the metabolic products of lappaconitine in rat urine by high-performance liquid chromatography 526(1990)109

N-Deacetyl-14,16-O-dimethylappaconitine

Separation and characterization of the metabolic products of lappaconitine in rat urine by high-performance liquid chromatography 526(1990)109

N-Deacetylappaconitine

Separation and characterization of the metabolic products of lappaconitine in rat urine by high-performance liquid chromatography 526(1990)109

Deacetylpyriferic acid

Chemical characteristics of herbivore defenses in *Betula pendula* winter-dormant young stems 547(1991)367

Deamidobleomycin

Separation of bleomycins and their deamido metabolites by high-performance cation-exchange chromatography 514(1990)86

 α -Decalol

Analytical gas chromatographic separations of diastereomeric *tert.*-butylmethoxyphenylsilyl ethers 514(1990)305

Deethylatrazine

Determination of chlorotriazines and their photolysis products by liquid chromatography with photodiode-array and thermospray mass spectrometric detection 502(1990)275

High-performance liquid chromatographic determination of atrazine, deisopropylatrazine

and deethylatrazine in soils from corn fields
549(1991)229

Dehydroascorbic acid

Determination of ascorbic acid, dehydroascorbic acid and ascorbic acid-2-phosphate in infiltrated apple and potato tissue by high-performance liquid chromatography 503(1990)431

High-performance liquid chromatographic post-column reaction system for the electrochemical detection of ascorbic acid and dehydroascorbic acid 504(1990)434

Assay for both ascorbic and dehydroascorbic acid in dairy foods by high-performance liquid chromatography using precolumn derivatization with methoxy- and ethoxy-1,2-phenylenediamine 543(1991)367

7-Dehydrocholesterol

Determination of 7-dehydrocholesterol in human skin by high-performance liquid chromatography 530(1990)19

Dehydrosalidroside

Chemical characteristics of herbivore defenses in *Betula pendula* winter-dormant young stems 547(1991)367

Dehydrosparteine

Simultaneous determination of sparteine and its 2-dehydro and 5- α -hydro metabolites in urine by high-performance liquid chromatography with electrochemical detection 529(1990)194

11-Dehydrothromboxane B₂

11-Dehydrothromboxane B₂: convenient preparation of its stable isotope-labelled analogue for use in quantitative gas chromatography-mass spectrometry 526(1990)169

Deisopropylatrazine

Determination of chlorotriazines and their photolysis products by liquid chromatography with photodiode-array and thermospray mass spectrometric detection 502(1990)275

High-performance liquid chromatographic determination of atrazine, deisopropylatrazine and deethylatrazine in soils from corn fields 549(1991)229

Delorazepam

Collection of analytical data for benzodiazepines and benzophenones. Appendix 538(1991)277

Demecolcine

Determination of the antimetabolic agents N-desacetylcolchicine, demecolcine and colchicine in serum and urine 525(1990)411

N-Demethyldeacetyldiltiazem

Solid-phase extraction of diltiazem and its metabolites from plasma prior to high-performance liquid chromatography 528(1990)542

N-Demethyldiltiazem

Solid-phase extraction of diltiazem and its metabolites from plasma prior to high-performance liquid chromatography 528(1990)542

N-Demethylencaïnide

Encainide and metabolites analysis in serum or plasma using a reversed-phase high-performance liquid chromatographic technique 526(1990)260

Analysis of encainide and its three major metabolites in plasma by column liquid chromatography 534(1990)223

O-Demethylencaïnide

Analysis of encainide and its three major metabolites in plasma by column liquid chromatography 534(1990)223

N-Demethylfloxacin

Determination of the new fluoroquinolone floxacin and its N-demethyl and N-oxide metabolites in plasma and urine by high-performance liquid chromatography with fluorescence detection 527(1990)91

Demethylmedicarpin

Separation and identification of phytoalexins from leaves of groundnut (*Arachis hypogaea*) and development of a method for their determination by reversed-phase high-performance liquid chromatography 547(1991)185

Demethyltauroumustine

Determination of tauroumustine and its demethylated metabolites in plasma and urine 526(1990)151

Demoxytocin

Animal test or chromatography? Validated high-performance liquid chromatographic assay as an alternative to the biological assay for ornipressin 548(1991)335

Denopamine

Determination of denopamine in human and dog plasma by high-performance liquid chromatography with electrochemical detection 529(1990)500

2'-Deoxyadenosine

Adduct formation identification between phenyl glycidyl ether and 2'-deoxyadenosine and thymidine by chromatography, mass spectrometry and nuclear magnetic resonance spectroscopy 504(1990)113

N-Deoxycortisol

Semi-automated high-performance liquid chromatographic method for the simultaneous assay of plasma cortisol and 11-deoxycortisol in the metyrapone test 526(1990)180

2'-Deoxycytidine adducts

Comparison of the isolation of adducts of 2'-deoxycytidine and 2'-deoxyguanosine with phenylglycidyl ether by high-performance liquid chromatography on a reversed-phase column and a polystyrene-divinylbenzene column 541(1991)317

7-Deoxydoxorubicin aglycone

High-performance liquid chromatography of iododoxorubicin and fluorescent metabolites in plasma samples 530(1990)192

7-Deoxydoxorubicinol aglycone

High-performance liquid chromatography of iododoxorubicin and fluorescent metabolites in plasma samples 530(1990)192

2-Deoxy-D-glucitol

Gas-liquid chromatographic assay of the components of electrochemically reduced glucose solutions. Impurities in sorbitol samples 520(1990)185

2-Deoxy-D-glucose

Gas-liquid chromatographic assay of the components of electrochemically reduced glucose solutions. Impurities in sorbitol samples 520(1990)185

2'-Deoxyguanosine adducts

Comparison of the isolation of adducts of 2'-deoxycytidine and 2'-deoxyguanosine with phenylglycidyl ether by high-performance liquid chromatography on a reversed-phase column and a polystyrene-divinylbenzene column 541(1991)317

N-(Deoxyguanosin-8-yl)-2-aminofluorene

Release of 2-aminofluorene from N-(deoxyguanosin-8-yl)-2-aminofluorene by hydrazinolysis 538(1991)447

Deoxynivalenol

Heptafluorobutyrylation of trichothecenes using a solid-phase catalyst 511(1990)384

Molecular interactions in liquid chromatography 537(1991)33

Use of 1-[*p*-(2,3-dihydroxypropoxy)phenyl]-1-alkanones as retention index standards in the identification of trichothecenes by liquid chromatography-thermospray and dynamic fast atom bombardment mass spectrometry 543(1991)39

Deoxypyridinoline

Rapid assay for hard tissue collagen cross-links using isocratic ion-pair reversed-phase liquid chromatography 525(1990)43

Deoxyribonucleosides

Titania and zirconia: possible new ceramic microparticulates for high-performance liquid chromatography 515(1990)149

Deoxyribonucleoside triphosphates

Improved sample preparation method for high-performance liquid chromatography of deoxyribonucleoside triphosphates from cell culture extracts 508(1990)75

Deoxyribonucleotides

High-performance liquid chromatography of deoxyribonucleoside di- and triphosphates in tomato roots 536(1991)237

Deoxyspergualin

High-performance liquid chromatographic determination of deoxyspergualin in dog plasma with ultraviolet detection 527(1990)208

Deoxyuridines

Comparative investigation of the retention behaviour of nucleoside derivatives on alumina stationary phases in thin-layer chromatography and high-performance liquid chromatography 550(1991)667

Deprenyl

Spacer-displacement and carrier spacer-displacement thin-layer chromatography 520(1990)287

Dermatan sulphate

Immobilization of dermatan sulphate on a silica matrix and its possible use as an affinity chromatography support for heparin cofactor II purification 539(1991)289

N-Desacetylcolchicine

Determination of the antimetabolic agents N-desacetylcolchicine, demecolcine and colchicine in serum and urine 525(1990)411

Desacetyldiltiazem

Solid-phase extraction of diltiazem and its metabolites from plasma prior to high-performance liquid chromatography 528(1990)542

Desacetylnavelbine

Determination of navelbine and desacetylnavelbine in biological fluids by high-performance liquid chromatography 525(1990)225

Des-enkephalin- γ -endorphin

Bioanalysis of the peptide des-enkephalin- γ -endorphin. On-line sample pretreatment using membrane dialysis and solid-phase isolation 511(1990)137

Bioanalysis of the neuropeptide des-enkephalin- γ -endorphin by high-performance liquid chromatography with on-line sample pretreatment using gel permeation and solid-phase isolation 549(1991)185

Desferriferichromes

Analysis of ^{55}Fe -labeled hydroxamate siderophores by high-performance liquid chromatography 537(1991)259

Desferrioxamine

Simultaneous determination of desferrioxamine and ferrioxamine by high-performance liquid chromatography with amperometric detection 527(1990)481

Desferrioxamine B

Analysis of ^{55}Fe -labeled hydroxamate siderophores by high-performance liquid chromatography 537(1991)259

Desipramine

Use of non-ionic and zwitterionic surfactants to enhance selectivity in high-performance capillary electrophoresis. An apparent micellar electrokinetic capillary chromatography mechanism 503(1990)449

Characterization of an internal-surface reversed-phase silica support for liquid chromatography and its application to assays of drugs in serum 515(1990)59

Studies on system peaks in ion-pair adsorption chromatography. IV. Optimization of peak compression 535(1990)93

Rapid and simple high-performance liquid chromatographic determination of tricyclic antidepressants for routine and emergency serum analysis 536(1991)319

Separation of seven tricyclic antidepressants using capillary electrophoresis 549(1991)375

N-Desmethylnedifoxamine

Measurement of medifoxamine metabolites in urine by high-performance liquid chromatography 528(1990)531

O-Desmethylnaftopidil

High-performance liquid chromatography of naftopidil, a novel antihypertensive drug, and two metabolites in human plasma 534(1990)247

N-Desmethylnizatidine

Determination of nizatidine and two of its main metabolites in human serum using high-performance liquid chromatography 529(1990)369

N-Desmethylnapristone

Determination of onapristone and its N-desmethyl metabolite in human plasma or serum by high-performance liquid chromatography 532(1990)115

Desmethylelegiline

Determination of the amine metabolites of selegiline in biological fluids by capillary gas chromatography 527(1990)163

Desmethylsertraline

Separation and determination of sertraline and its metabolite, desmethylsertraline, in mouse cerebral cortex by reversed-phase high-performance liquid chromatography 527(1990)467

Desmosine

Development and validation of a high-performance liquid chromatographic method for the determination of desmosines in tissues 507(1990)51

Desoxycarbadox

Optimization and ruggedness testing of the determination of residues of carbadox and metabolites in products of animal origin. Stability studies in animal tissues 541(1991)401

Desoxyvasicinones

Correlation between structure and gas chromatographic behaviour of nitrogen-containing heterocyclic compounds. III. Variation of ring size 537(1991)377

Desulphoglucosinolates

Supercritical fluid chromatography with light-scattering detection. I. Preliminary results of the analysis of polar compounds with packed columns 505(1990)191

Detomidine

Determination of detomidine residues in horse meat by negative-ion chemical ionization mass spectrometry 530(1990)137

Deuterium

Comparison of discharge tubes for deuterium-specific gas chromatographic detection with a microwave-induced plasma 508(1990)187

Deuterium oxide

Effect of $^2\text{H}_2\text{O}$ on the resolution of the optical isomers of ibuprofen on an α_1 -acid glycoprotein column 518(1990)277

Capillary electrophoresis in [^2H]water solution 541(1991)489

Capillary electrophoretic separation in both H_2O - and $^2\text{H}_2\text{O}$ -based electrolytes can provide more information on tryptic digests 547(1991)551

The effect of $^2\text{H}_2\text{O}$ and an ion-pairing agent on the liquid chromatographic separation of dansylated amino acids 549(1991)404

Dexamethasone

Determination of dexamethasone in bovine tissues by coupled-column normal-phase high-performance liquid chromatography and capillary gas chromatography-mass spectrometry 529(1990)1

Dextrans

Settling-time dependence of rat bone marrow cell partition and counter-current distribution in charge-sensitive aqueous two-phase systems. Relationship with the cell partitioning mechanism 504(1990)79

Aqueous two-phase systems with increased density for partition of heavy particles 522(1990)235

Determination of size limits of membrane separation in vesicle chromatography by fractionation of polydisperse dextran 542(1991)239

Partitioning of cells in dextran-poly(ethylene glycol) aqueous phase systems. A study of settling time, vessel geometry and sedimentation effects on the efficiency of separation 542(1991)397

Stability of Superdex 75 prep grade and Superdex 200 prep grade under different chromatographic conditions 547(1991)21

Dextromethorphan hydrobromide

Important parameters in liquid chromatography-continuous-flow fast atom bombardment mass spectrometry 511(1990)35

Dextropropoxyphene

Determination of impurities in dextropropoxyphene hydrochloride by high-performance liquid chromatography on dynamically modified silica 539(1991)186

Diacetolol

High-performance liquid chromatographic determination of diacetolol enantiomers 533(1990)300

4,15-Diacetoxyscirpentiol

Heptafluorobutyrylation of trichothecenes using a solid-phase catalyst 511(1990)384

Diacylglycerols

Sensitive analysis of phospholipid molecular species by high-performance liquid chromatography using fluorescent naproxen derivatives of diacylglycerols 518(1990)157

Enantiomer separation of diacid-diacylglycerol mixtures by high-performance liquid chromatography on a chiral column 519(1990)237

Identification of individual diacylglycerols by adsorption thin-layer chromatography of their coordination complexes 538(1991)373

Packed-microbore supercritical fluid chromatography with flame ionization detection of abused vegetable oils 540(1991)271

Analysis and fractionation of natural source diacylglycerols as urethane derivatives by reversed-phase high-performance liquid chromatography 547(1991)89

Diacylglycerophospholipids

Sensitive analysis of phospholipid molecular species by high-performance liquid chromatography using fluorescent naproxen derivatives of diacylglycerols 518(1990)157

1,2-Diacylphosphatidylcholine

Refractive index gradient detection of biopolymers separated by high-temperature liquid chromatography 536(1991)289

Dialkyl ethers

Adsorption effect on the retention volume of hydrocarbons and dialkyl ethers in gas-liquid chromatography using a polar stationary phase and silica gel support 503(1990)25

Diallyl phthalate

Optimization of the isocratic high-performance liquid chromatographic separation of selected phthalates using the overlapping resolution mapping technique 513(1990)360

Diamine oxidase

Modified high-performance liquid chromatographic determination of diamine oxidase activity in plasma 507(1990)333

***cis*-Diaminodichloroplatinum(II)**

High-performance liquid chromatographic determination of *cis*-diamminedichloroplatinum (II) (cisplatin) as the *o*-phenylenediamine complex 530(1990)219

1,6-Diaminohexane

Identification of ferrioxamines by high-performance liquid chromatography and diode-array detection 513(1990)255

Investigation of interfering products in the high-performance liquid chromatographic determination of polyamines as benzoyl derivatives 518(1990)264

2,3-Diaminonaphthalene

Determination of selenium in organic compounds on a silica gel sintered thin-layer chromatographic plate with 2,3-diaminonaphthalene after direct digestion 537(1991)397

2,3-Diaminophenazine

Analyse par chromatographie liquide du diamino-2,3 phénazine et de l'hydroxy-2 amino-3

phénazine dans les carbendazimes techniques et formulés 518(1990)375

Diaminopimelic acid

High-performance liquid chromatographic separation of the three stereoisomers of diaminopimelic acid in hydrolysed bacterial cells 536(1991)211

***cis*-Diamminedichloroplatinum**

see Cisplatin

Dianabol

Packed-column supercritical fluid chromatography-mass spectrometry and supercritical fluid chromatography-tandem mass spectrometry with ionization at atmospheric pressure 511(1990)257

Diatomaceous earth

Direct sample injection into the high-performance liquid chromatographic column in theophylline monitoring 515(1990)321

1,4-Diazabicyclo[2.2.2]octane

Gas chromatographic retention properties of organoammonium exchanged montmorillonites. II. $\text{CH}_3\text{N}^+\text{H}_3$, $(\text{CH}_3)_4\text{N}^+$, $(\text{CH}_3)_3\text{N}^+\text{CH}_2\text{C}_6\text{H}_5$ and 1,4-diazabicyclo[2.2.2]octane $\cdot 2\text{H}^+$ 549(1991)283

Diazepam

Estimation of the analgesic muscle relaxants chlorzoxazone and diazepam in human plasma by reversed-phase liquid chromatography 528(1990)407

Dibenz[*a,j*]acridine

High-performance liquid chromatographic method for the determination of polycyclic hydrocarbon metabolite distributions 530(1990)337

Dibromomethane

Determination of biogenic and anthropogenic volatile halocarbons in sea water by liquid-liquid extraction and capillary gas chromatography 513(1990)39

Dibutyldithiocarbamates

High-performance liquid chromatographic determination of dibutyldithiocarbamate degradation products in cucumbers and soil 502(1990)214

Dibutyl phosphate

Simultaneous determination of tributyl phosphate and dibutyl phosphate in spent fuel reprocessing streams by gas chromatography 537(1991)489

Dibutyl phthalate

Optimization of the isocratic high-performance liquid chromatographic separation of selected phthalates using the overlapping resolution mapping technique 513(1990)360

Dibutyltin dichloride

Gas chromatographic determination of airborne dialkyltin dichlorides as hydride derivatives 523(1990)273

Dicamba

Separation and determination of acidic herbicides on a PRP-1 polymeric column 513(1990)219

Dicarboxylic acids, unsaturated

Gas chromatographic-mass spectrometric characterisation of unsaturated dicarboxylic acids in urine 534(1990)182

2,7-Dichlorofluorescein

Indirect fluorometric detection in open-tubular capillary column chromatography 506(1990)401

Dichloromethane

Peculiarities of aromatic hydrocarbon retention in normal-phase high-performance liquid chromatography with eluents containing halide derivatives 520(1990)315

1,4-Dichloro-2-nitrobenzene

Gas chromatographic and mass spectrometric determination of nitroaromatics in water 518(1990)21

(2,4-Dichlorophenoxy)acetic acid

Screening method for phenoxy acid herbicides in ground water by high-performance liquid chromatography of 9-anthryldiazomethane derivatives and fluorescence detection 541(1991)359

Dichloropropene

Reversed-phase liquid chromatographic column switching for the trace-level determination of polar compounds. Application to chloroallyl alcohol in ground water 511(1990)243

Dichlorosilanes

Investigations by ^{29}Si cross-polarization magic angle spinning NMR spectroscopy of reaction pathways of silica gel polyfunctional modification 506(1990)343

Dichlorotetrafluoroacetone

Dichlorotetrafluoroacetone as a derivatisation reagent in the analysis of mandelic acids in human urine 527(1990)259

Dichlorvinphos

High-precision sampling of trace gas-borne volatiles by the dynamic solvent effect with a comparative review of alternative techniques 504(1990)21

Dichlorvos

Determination of metrifonate and dichlorvos in whole blood using gas chromatography and gas chromatography and gas chromatography-mass spectrometry 529(1990)309

Diclofenac

High-performance liquid chromatographic method for the determination of diclofenac and its hydroxy metabolites in human plasma and urine 528(1990)487

Diclofop-methyl

Determination of diclofop-methyl and diclofop residues in soil and crops by gas chromatography 547(1991)509

Didanosine

Quantitation of didanosine in human plasma and urine by high-performance liquid chromatography 533(1990)282

Didemethyltaurumustine

Determination of taurumustine and its demethylated metabolites in plasma and urine 526(1990)151

2',3'-Dideoxycytidine

High-performance liquid chromatographic method for the analysis of 2',3'-dideoxycytidine in human plasma 532(1990)442

Determination of 3'-azido-3'-deoxythymidine, 2',3'-dideoxycytidine, 3'-fluoro-3'-deoxythymidine and 2',3'-dideoxyinosine in biological samples by high-performance liquid chromatography 534(1990)101

2',3'-Dideoxyinosine

High-performance liquid chromatographic method for analysis of 2',3'-dideoxyinosine in human body fluids 526(1990)69

Determination of 3'-azido-3'-deoxythymidine, 2',3'-dideoxycytidine, 3'-fluoro-3'-deoxythymidine and 2',3'-dideoxyinosine in biological samples by high-performance liquid chromatography 534(1990)101

Dideoxyribonucleosides

Chromatographic characterization of some dideoxyribonucleosides 550(1991)507

Didesmethylcitalopram

Simultaneous determination of citalopram, monodesmethylcitalopram and didesmethylcitalopram in plasma by high-performance liquid chromatography after column extraction 527(1990)226

Dienes, conjugated

Gas chromatography-mass spectrometry of conjugated dienes by derivatization with 4-methyl-1,2,4-triazoline-3,5-dione 522(1990)295

Dienestrol

Analysis of diethylstilbestrol, dienestrol and hexestrol in biological samples by immunoaffinity extraction and gas chromatography-negative-ion chemical ionization mass spectrometry 527(1990)267

Diethenylbenzenes

Biotransformation of diethenylbenzenes. II. Metabolic pattern of 1,4-diethenylbenzene 530(1990)283

1,2-Diethoxybenzene

Gas chromatographic-mass spectrometric identification of impurities in 1,2-diethoxybenzene 520(1990)149

Diethylamine succinimides

Influence of uncharged mobile phase additives on retention and enantioselectivity of chiral drugs using an α_1 -acid glycoprotein column 519(1990)271

***p*-Diethylbenzene**

Retention times and heats of adsorption of aromatic compounds on carbon adsorbents 506(1990)335

Diethyldithiocarbamate

Determination of sodium diethyldithiocarbamate (Imuthiol) and its S-methyl metabolite by gas chromatography-mass spectrometry. Use of deuteromethyl iodide derivatization 534(1990)57

Diethyldithiocarbamate S-methyl ester

Determination of sodium diethyldithiocarbamate (Imuthiol) and its S-methyl metabolite by gas chromatography-mass spectrometry. Use of deuteromethyl iodide derivatization 534(1990)57

Diethylenetriamine pentaacetic acid-gadolinium complex

Magnetic resonance imaging in reversed-phase liquid chromatography 517(1990)263

3,9-Diethylidene-2,4,8,10-tetraoxaspiro[5.5]undecane

Gas chromatographic assay for 3,9-diethylidene-2,4,8,10-tetraoxaspiro[5.5]undecane 508(1990)179

Diethyl ketone

Systematic errors with the use of internal standard calibration in gas chromatographic headspace analysis 518(1990)1

Diethyl phthalate

Optimization of the isocratic high-performance liquid chromatographic separation of selected phthalates using the overlapping resolution mapping technique 513(1990)360

Utility of the displacement effect in the routine optimization of separations by preparative liquid chromatography 523(1990)63

Diethylstilbestrol

Analysis of diethylstilbestrol, dienestrol and hexestrol in biological samples by immunoaffinity extraction and gas chromatography-negative-ion chemical ionization mass spectrometry 527(1990)267

Difloxacin

High-performance liquid chromatographic determination of several quinolone antibacterials in medicated fish feed 514(1990)348

Diflunisal

Liquid chromatography with amperometric detection for the determination of non-steroidal anti-inflammatory drugs in plasma 533(1990)125

Digitonin

Enantiomeric resolution by micellar electrokinetic chromatography with chiral surfactants 515(1990)221

Digoxin, 3,5-dinitrobenzoyl derivative

Electrochemical detection of the 3,5-dinitrobenzoyl derivative of digoxin by high-performance liquid chromatography 526(1990)439

Dihydrochalcones

Resolution of complex mixtures of phenolics in poplar bud exudate by analysis of gas chromatography-mass spectrometry data 519(1990)145

Dihydrodiol

Simultaneous determination of *p*-hydroxylated and dihydrodiol metabolites of phenytoin in urine

by high-performance liquid chromatography
535(1990)279

4,5-Dihydro-2-(2,2-diphenylcyclopropyl)-1H-imidazole

Quantification of cibenzoline and its imidazole metabolite by high-performance liquid chromatography in human serum 528(1990)267

Dihydroergocornine

Fast separation of dihydro ergot alkaloids on an octylsilica column 502(1990)241

Dihydroergocristine

Fast separation of dihydro ergot alkaloids on an octylsilica column 502(1990)241

Dihydroergocryptine

Fast separation of dihydro ergot alkaloids on an octylsilica column 502(1990)241

7,8-Dihydrofolate reductase

Improved methods for the purification of enzymes of the folate pathway in *Escherichia coli*. I. Chromatographic methods 523(1990)53

7,8-Dihydro- β -ionone

Thermal desorption- and sniffing-mass spectrometric monitoring of enriched trace compounds by means of a "live total transfer system" 547(1991)516

7,8-Dihydropteroate synthetase

Improved methods for the purification of enzymes of the folate pathway in *Escherichia coli*. I. Chromatographic methods 523(1990)53

Dihydropyridine calcium entry blockers

Enantioselective determination of felodipine and other chiral dihydropyridine calcium entry blockers in human plasma 528(1990)343

Dihydropyridines

Optical resolution of dihydropyridine enantiomers by high-performance liquid chromatography using phenylcarbamates of polysaccharides as a chiral stationary phase 513(1990)375

High-performance liquid chromatography of the metabolites of nitrendipine and investigation into the metabolic pathways of this dihydropyridine 530(1990)206

Dihydropyrimidine dehydrogenase

New high-performance liquid chromatographic method for the determination of low activities of dihydropyrimidine dehydrogenase 529(1990)431

Dihydrotanshinone

High-performance liquid chromatography of abietane-type compounds 542(1991)317

Dihydrotestosterone

Dihydrotestosterone binding capacity of androgen-binding protein in tissue extract using high-performance size exclusion chromatography 526(1990)186

5,6-Dihydrouridine

Isolation and identification of urinary nucleosides. Applications of high-performance liquid chromatographic methods to the synthesis of 5'-deoxyxanthosine and the simultaneous determination of 5,6-dihydrouridine and pseudouridine 515(1990)537

6-Dihydroverbenalin

Identification of a new minor iridoid glycoside in *Symplocos glauca* by thermospray liquid chromatography-mass spectrometry 515(1990)503

2,2-Dihydroxy-1,1-binaphthol

Chromatographic liquid-liquid ternary phase system with permethylated β -cyclodextrin as chiral additive 547(1991)59

5 β ,20-Dihydroxyecdysone

Reversed-phase high-performance liquid chromatographic separation of 5 β ,20-dihydroxyecdysone and 20-hydroxyecdysone on a β -cyclodextrin-bonded stationary phase 547(1991)443

3,4-Dihydroxyphenylacetic acid

Method for the determination of γ -L-glutamyl-L-dihydroxyphenylalanine and its major metabolites L-dihydroxyphenylalanine, dopamine and 3,4-dihydroxyphenylacetic acid by high-performance liquid chromatography with electrochemical detection 528(1990)43

Two-parameter mobile phase optimization for the simultaneous high-performance liquid chromatographic determination of dopamine, serotonin and related compounds in microdissected rat brain nuclei 547(1991)113

3,4-Dihydroxyphenylalanine

Simultaneous measurement of L-DOPA, its metabolites and carbidopa in plasma of Parkinsonian patients by improved sample pretreatment and high-performance liquid chromatographic determination 511(1990)167

Method for the determination of γ -L-glutamyl-L-dihydroxyphenylalanine and its major metabolites L-dihydroxyphenylalanine, dopamine and 3,4-dihydroxyphenylacetic acid by high-performance liquid chromatography with electrochemical detection 528(1990)43

Simple automated high-performance liquid chromatographic column-switching technique for the measurement of dopa and 3-O-methyldopa in plasma 530(1990)253

Identification and quantitation of phenylalanine, tyrosine and dihydroxyphenylalanine in the thoracic nervous system of the locust, *Schistocerca gregaria*, by gas chromatography-negative-ion chemical ionisation mass spectrometry 532(1990)1

Simultaneous high-performance liquid chromatographic analysis of carbidopa, levodopa and 3-O-methyldopa in plasma and carbidopa, levodopa and dopamine in urine using electrochemical detection 534(1990)87

4,5-Dihydroxy-3-(*p*-sulphophenyl-azo)-2,7-naphthalene disulphonic acid
Isotachopheretic analyser equipped with a scanning ultraviolet photometric detection system 538(1991)403

Diisopropyl fluorophosphate
Determination of organophosphorus and carbamate pesticide standards by liquid chromatography with detection by inhibition of immobilized acetylcholinesterase 539(1991)47

2,6-Diisopropylphenol
Electrochemical determination of 2,6-diisopropylphenol after high-performance liquid chromatography of extracts from serum 526(1990)293

O,O-Diisopropyl phosphorofluoridate
Thermal desorption-gas chromatography of some organophosphates and S-mustard after trapping on Tenax 514(1990)273

β -Diketonate
Use of β -diketonate anions as eluent in non-suppressed ion chromatography. Acetylacetonate eluent for the separation of fluoride and chloride 523(1990)257

β -Diketonate chelates
Chemically bonded chelates as selective complexing sorbents for gas chromatography. I. Alkenes 547(1991)259

β -Diketonato complexes
Reversed-phase liquid chromatographic retention of geometrical isomers of tris(β -diketonato)-chromium(III) and tris(β -diketonato)-cobalt(III). Comparison with liquid-liquid partition in a dodecane-(methanol-water) system 547(1991)225

Diketopiperazine
Direct stereochemical resolution of aspartame stereoisomers and their degradation products by high-performance liquid chromatography on a chiral crown ether based stationary phase 516(1990)365

Dilevalol
High-performance liquid chromatographic assay of dilevalol, a β -adrenoceptor blocker, in rat and human plasma 530(1990)458

Diltiazem
Chiral separation of diltiazem, trimetoquinol and related compounds by micellar electrokinetic chromatography with bile salts 515(1990)233

Solid-phase extraction of diltiazem and its metabolites from plasma prior to high-performance liquid chromatography 528(1990)542

9,10-Di(methacryloyloxymethyl)anthracene
Studies on the selectivity of porous polymers based on polyaromatic esters 503(1990)41

Di(methacryloyloxymethyl)naphthalene
Preliminary results on the gas chromatographic evaluation of interpenetrating polymer networks prepared from porous polymer beads 502(1990)393

Studies on the selectivity of porous polymers based on polyaromatic esters 503(1990)41

7,4'-Dimethoxy-2'-hydroxyisoflavanone
Separation and identification of phytoalexins from leaves of groundnut (*Arachis hypogaea*) and development of a method for their determination by reversed-phase high-performance liquid chromatography 547(1991)185

N-[2-(Dimethylamino)ethyl]acridine-4-carboxamide
Quantitation of the antitumour agent N-[2-(dimethylamino)ethyl]acridine-4-carboxamide in plasma by high-performance liquid chromatography 528(1990)385

Dimethylaminopyridinium reagents, polymeric
Polymeric dimethylaminopyridinium reagents for derivatization of weak nucleophiles in high-

performance liquid chromatography–ultraviolet/fluorescence detection 515(1990)337

1,1-Dimethyl-4,4'-bipyridinium dichloride

Determination of paraquat in rat brain using ion-pair solid-phase extraction and reversed-phase high-performance liquid chromatography with ultraviolet detection 527(1990)189

Dimethylformamide

Rapid extraction and high speed liquid chromatography of *Nicotiana tabacum* leaf pigments 502(1990)431

Packed column gas chromatography–capillary column gas chromatography–mass spectrometry coupling for the qualitative characterization of technical products 520(1990)175

2,5-Dimethylfuran

Identification of exposure markers in smokers' breath 511(1990)291

N,N-Dimethylglycine

Gas chromatographic assay for N,N-dimethylglycine in urine 530(1990)227

N²,N²-Dimethylguanosine

Isolation and identification of urinary nucleosides. Applications of high-performance liquid chromatographic methods to the synthesis of 5'-deoxyxanthosine and the simultaneous determination of 5,6-dihydrouridine and pseudouridine 515(1990)537

Dimethylmaleic anhydride

Enhanced activity of immobilized dimethylmaleic anhydride-protected poly- and monoclonal antibodies 510(1990)303

O,O-Dimethyl methylphosphonate

Thermal desorption–gas chromatography of some organophosphates and S-mustard after trapping on Tenax 514(1990)273

N,N-Dimethyl-n-octylamine

Capillary supercritical fluid chromatography of aliphatic amines. Studies on the selectivity and symmetry with three different columns using carbon dioxide or nitrous oxide as mobile phase 516(1990)415

2,6-Dimethylphenol

Renaissance of gas chromatography–time-of-flight mass spectrometry. Meeting the challenge of capillary columns with a beam deflection instrument and time array detection 518(1990)283

2,4-Dimethylphenol

Behaviour of phenols under supercritical fluid chromatographic conditions in relation to the pyrolysis of lignocellulosic materials 540(1991)225

4-[(2,3-Dimethylphenyl)methyl]-1H-imidazole hydrochloride

Determination of detomidine residues in horse meat by negative-ion chemical ionization mass spectrometry 530(1990)137

Dimethyl phthalate

Optimization of the isocratic high-performance liquid chromatographic separation of selected phthalates using the overlapping resolution mapping technique 513(1990)360

Dimethylsiloxane

Behaviours of siloxane polymers containing phenyl or silylene as stationary phases for high-temperature gas chromatography 514(1990)259

Dimethyl sulphate

Determination of dimethyl sulphate in air by gas chromatography with flame photometric detection 541(1991)459

N-[4,4-Di(3-methylthien-2-yl)-but-3-enyl] nipecotic acid hydrochloride

Reversed-phase high-performance liquid chromatographic separation of the enantiomers of N-[4,4-di(3-methylthien-2-yl)-but-3-enyl] nipecotic acid on a Pirkle-type phenylglycine stationary phase 503(1990)115

Diniconazole

Elution orders in the separation of enantiomers by high-performance liquid chromatography with some chiral stationary phases 535(1990)213

3,5-Dinitrobenzoyl derivative of digoxin

Electrochemical detection of the 3,5-dinitrobenzoyl derivative of digoxin by high-performance liquid chromatography 526(1990)439

2,4-Dinitrophenylpyridium chloride

2,4-Dinitrophenylpyridium chloride, a novel and versatile reagent for the detection of amino acids, primary and secondary amines, thiols, thiolactones and carboxylic acids during planar chromatography 504(1990)456

Dinitrotoluene

Poly(styrene–dimethylsiloxane) block copolymer as a stationary phase for capillary gas chromatography 511(1990)390

Gas chromatographic and mass spectrometric determination of nitroaromatics in water 518(1990)21

***p*-*n*-Dioctyloxazoxybenzene**

Modified sorbents in binary stationary phase systems in gas chromatography 508(1990)193

Dioctyltin dichloride

Gas chromatographic determination of airborne dialkyltin dichlorides as hydride derivatives 523(1990)273

1,3-Diolein

Rapid and sensitive method for the quantitation of non-polar lipids by high-performance thin-layer chromatography and fluorodensitometry 549(1991)387

Diols

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

1,4-Dioxane

Three-dimensional network plots using colours for a fourth variable with binary mixtures of pentane and 1,4-dioxane under sub- and supercritical conditions 505(1990)109

Dioxins

Extraction and clean-up procedure for polychlorinated dibenzo-*p*-dioxins and dibenzofurans in fly ash from municipal solid waste incinerators 523(1990)265

Dioxins, halogenated

Correlation of structure with linear retention index for bromo- and bromochlorodibenzo-*p*-dioxins and bromodibenzofurans 540(1991)293

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

Dipeptides

Electrochemical detection of dipeptides and dipeptide amides 515(1990)451

Effects of mobile phase composition on the reversed-phase separation of dipeptides and tripeptides with cyclodextrin-bonded-phase columns 522(1990)143

Dipeptides, cyclic

Chiral high-performance liquid chromatography of aromatic cyclic dipeptides using cyclodextrin stationary phases 543(1991)299

Dipeptides, protected

Separation of enantiomeric protected dipeptides by chiral high-performance liquid chromatography 514(1990)325

Diphenhydramine

High-performance liquid chromatography method for the determination of diphenhydramine in human plasma 526(1990)597

2-(2,2-Diphenylcyclopropyl)-1*H*-imidazole

Quantification of cibenzoline and its imidazole metabolite by high-performance liquid chromatography in human serum 528(1990)267

Diphenylmercury

High-performance liquid chromatographic investigation of the interaction of phenylmercuric nitrate and sodium metabisulphite in eye drop formulations 511(1990)233

2,3-Diphosphoglycerate, cyclic

Quantification of cyclic 2,3-diphosphoglycerate from methanogenic bacteria by isotachopheresis 504(1990)421

Dipicrylamine

Sensitivity of electrokinetic detection of acidic aromatic nitro derivatives using column as a detector 541(1991)257

Diprafenone

Normal-phase high-performance liquid chromatographic procedure for the determination of diprafenone in plasma 527(1990)182

Dipyrrolic azosulfanilates

High-performance liquid chromatographic analysis of bile pigments as their native tetrapyrroles and as their dipyrrolic azosulfanilate derivatives 529(1990)287

Disopyramide

Simultaneous determination of disopyramide and its mono-*N*-dealkylated metabolite enantiomers in human plasma and urine by enantioselective high-performance liquid chromatography 529(1990)347

Disulphite

Sulfite-disulfite equilibrium on an ion chromatography column 508(1990)271

Ditekiren

Determination of ditekiren, a renin inhibitor peptide, in monkey serum using high-performance liquid chromatography with solid-phase extraction 526(1990)273

Dithiocarbamates

High-performance liquid chromatographic investigation of the interaction of phenylmercuric nitrate and sodium metabisulphite in eye drop formulations 511(1990)233

Dithiouracil

High-performance liquid chromatography of thiols with differential pulse polarographic detection of the catalytic hydrogen evolution current 515(1990)257

Diuron

Carrier effect in the analysis of phenylurea herbicides using high-performance liquid chromatography-particle beam-mass spectrometry 549(1991)237

Divinylbenzene

Studies on the selectivity of porous polymers based on polyaromatic esters 503(1990)41

DNA

Rapid high-performance liquid chromatography of nucleic acids with polystyrene-based micropellicular anion exchangers 508(1990)61

High-performance affinity chromatography of DNA 508(1990)279

New ion exchangers for the chromatography of biopolymers 510(1990)133

Preparation of ethylenediaminephosphoramidates of nucleotides and derivatization with fluorescein isothiocyanate 512(1990)409

Size-exclusion chromatography dimension for rod-like macromolecules 515(1990)37

Recent developments in electrophoretic methods (Review) 516(1990)3

Separation and analysis of DNA sequence reaction products by capillary gel electrophoresis 516(1990)49

Capillary gel electrophoresis for DNA sequencing. Laser-induced fluorescence detection with the sheath flow cuvette 516(1990)61

Application of capillary DNA chromatography to detect AIDS virus (HIV-1) DNA in blood 533(1990)87

Rapid analysis of small molecules in the presence of DNA by high-performance liquid chromatography using internal surface reversed-phase silica 533(1990)195

Purification of DNA and group separation of normal and modified DNA components by size-exclusion chromatography 539(1991)373

DNA fragments

Rapid separation, quantitation and purification of products of polymerase chain reaction by liquid chromatography 512(1990)433

Separation of DNA restriction fragments by high performance capillary electrophoresis with low and zero crosslinked polyacrylamide using continuous and pulsed electric fields 516(1990)33

Fluoropolymers and fluorocarbon bonded phases as column packings for liquid chromatography (Review) 544(1991)187

Macroporous synthetic hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1991)249

Non-porous hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1989)257

Analysis and purification of DNA restriction fragments by high-performance liquid chromatography 548(1991)281

DNA polymerase

Purification on poly(U)-Sepharose 4B of human breast cancer cell line T-47D DNA polymerases 539(1991)511

DNA topoisomerase

Use of immobilized triazine dyes in the purification of DNA topoisomerase I (Topo I) and terminal deoxynucleotidyl transferase (TdT) from calf thymus 539(1991)525

Docosahexaenoic acid

Enrichment of eicosapentaenoic acid and docosahexaenoic acid esters from esterified fish oil by programmed extraction-elution with supercritical carbon dioxide 515(1990)295

Nervonic acid *versus* tricosanoic acid as internal standards in quantitative gas chromatographic

analyses of fish oil longer-chain $n-3$ polyunsaturated fatty acid methyl esters 533(1990)1

Dodecyl benzene

Chromatographic liquid-liquid ternary phase system with permethylated β -cyclodextrin as chiral additive 547(1991)59

Dodecyldimethylammonium chloride

Determination of fungistatic quaternary ammonium compounds in beverages and water samples by high-performance liquid chromatography 507(1990)421

Dodecyltrimethylammonium bromide

Determination of fungistatic quaternary ammonium compounds in beverages and water samples by high-performance liquid chromatography 507(1990)421

Dodecyl urocanate

Separation and determination of *Z* and *E* isomers of dodecyl urocanate 521(1990)148

Domoic acid

High-performance liquid chromatographic assay for domoic acid in serum of different species 526(1990)546

Confirmation of domoic acid in shellfish using butyl isothiocyanate and reversed-phase liquid chromatography 550(1991)595

Dopa

see 3,4-Dihydroxyphenylalanine

Dopamine

Combination of positron emission tomography with liquid chromatography in neuropharmacologic research 507(1990)303

Contributions to the calculation of retention data in ion-pair chromatography 508(1990)309

Determination of free catecholamines in human urine by direct injection of urine into a liquid chromatographic column-switching system with fluorimetric detection 515(1990)435

Determination of urinary free noradrenaline by reversed-phase high-performance liquid chromatography with on-line extraction and fluorescence derivatization 515(1990)621

Method for the determination of γ -L-glutamyl-L-dihydroxyphenylalanine and its major metabolites

L-dihydroxyphenylalanine, dopamine and 3,4-dihydroxyphenylacetic acid by high-performance liquid chromatography with electrochemical detection 528(1990)43

Reversed-phase liquid chromatographic method with amperometric detection for the determination of the dopamine agonist 2-(N-propyl-N-2-thienylethylamino)-5-hydroxytetralin (N-0437) in human plasma and urine 528(1990)464

Fully automated high-performance liquid chromatographic assay for the analysis of free catecholamines in urine 530(1990)11

Identification and quantitation of N-acetyl metabolites of biogenic amines in the thoracic nervous system of the locust, *Schistocerca gregaria*, by gas chromatography-negative-ion chemical ionisation mass spectrometry 532(1990)13

Simple approach for reversal of the epinephrine-norepinephrine elution order in ion-pair reversed-phase liquid chromatography 532(1990)394

Determination of plasma catecholamines via condensation with diphenylethylenediamine: simplification of the procedure 533(1990)166

Simultaneous high-performance liquid chromatographic analysis of carbidopa, levodopa and 3-O-methyldopa in plasma and carbidopa, levodopa and dopamine in urine using electrochemical detection 534(1990)87

High-performance liquid chromatography of biogenic amines in the corpus cardiacum of the American cockroach, *Periplaneta americana* 539(1991)193

Separation and estimation of small amounts of the enantiomers of carbidopa and methyldopa on a chiral stationary phase with L-phenylalanine as selector in ligand-exchange chromatography 545(1991)115

Two-parameter mobile phase optimization for the simultaneous high-performance liquid chromatographic determination of dopamine, serotonin and related compounds in microdissected rat brain nuclei 547(1991)113

Fingerprinting of molecular components in individual human cerebrospinal fluid samples with a new micropurification system 548(1991)311

Detection of octopamine in an insect ganglion by high-performance liquid chromatography-native fluorescence 549(1991)400

Dopamine receptors

Purification of D₂ dopamine receptor by photoaffinity labelling, high-performance liquid chromatography and preparative sodium dodecyl sulphate polyacrylamide gel electrophoresis 515(1990)375

Dowicil 200

High-performance liquid chromatographic determination of free formaldehyde in cosmetics preserved with Dowicil 200 502(1990)193

Doxacurium

High-performance liquid chromatographic analysis of doxacurium, a new long-acting neuromuscular blocker 525(1990)389

Doxepin

Separation of seven tricyclic antidepressants using capillary electrophoresis 549(1991)375

Doxorubicin

Quantitative determination of cholesterol in liposome drug products and raw materials by high-performance liquid chromatography 507(1990)157

High-performance liquid chromatography of iododoxorubicin and fluorescent metabolites in plasma samples 530(1990)192

Doxorubicin aglycone

High-performance liquid chromatography of iododoxorubicin and fluorescent metabolites in plasma samples 530(1990)192

Doxorubicinol aglycone

High-performance liquid chromatography of iododoxorubicin and fluorescent metabolites in plasma samples 530(1990)192

Droperidol

High-performance liquid chromatographic procedure for the determination of clozapine, haloperidol, droperidol and several benzodiazepines in plasma 525(1990)218

High-performance liquid chromatography of droperidol in whole blood 532(1990)181

Drugs

Comparison of high-performance liquid chromatography, supercritical fluid

chromatography and capillary zone electrophoresis in drug analysis 507(1990)125

Solid-phase extraction for the screening of acidic, neutral and basic drugs in plasma using a single-column procedure on Bond Elut Certify 529(1990)161

Analysis of drugs and other toxic substances in biological samples for pharmacokinetic studies 531(1990)3

Separation procedures used to reveal and follow drug-protein binding 531(1990)51

Application of micellar mobile phases for the assay of drugs in biological fluids 531(1990)79

Radiochromatography in pharmaceutical and biomedical analysis 531(1990)101

Automated precolumn derivatization of amino acids, small peptides, brain amines and drugs with primary amino groups for reversed-phase high-performance liquid chromatography using naphthalenedialdehyde as the fluorogenic label 533(1990)171

DSTDP

Characterization of polymer additives by supercritical fluid chromatography and by liquid chromatography 505(1990)283

Dyes

Immobilization of reactive dyes on several matrices that allow high and very high flow-rates to be used. Application to the purification of a proteinase inhibitor from corn 510(1990)165

Preparative isotachophoretic analyser equipped with a dropwise fractionating device 513(1990)297

Separation and identification of impurities in the dye intermediate 8-amino-1-naphthol-3,6-disulphonic acid (H-acid) by high-performance liquid chromatography 514(1990)330

Analysis of xanthene dyes by reversed-phase high-performance liquid chromatography on a polymeric column followed by characterization with a diode array detector 528(1990)155

Post-column reaction for simultaneous analysis of chromatic and leuco forms of malachite green and crystal violet by high-performance liquid chromatography with photometric detection 536(1991)217

Purification of Food Color Red No. 106 (Acid Red) using high-speed counter-current chromatography 538(1991)149

Use of dye pseudo-affinity chromatography in the purification of homoserine dehydrogenase 539(1991)507

Use of immobilized triazine dyes in the purification of DNA topoisomerase I (Topo I) and terminal deoxynucleotidyl transferase (TdT) from calf thymus 539(1991)525

Isotachopheresis of some synthetic colorants in foods 545(1991)413

Direct use of Empore sheets in overpressured thin-layer chromatography 547(1991)403

Dyfonate

(*R*)- and (*S*)-Naphthylethylcarbamate-substituted β -cyclodextrin bonded stationary phases for the reversed-phase liquid chromatographic separation of enantiomers 539(1991)83

Dynorphin A (1-17)

High-performance liquid chromatographic system for the separation of dynorphin A (1-17) fragments and its application in enzymolysis studies with rat nerve terminal membranes 529(1990)43

E

E09

Gradient high-performance liquid chromatographic assay for the determination of the novel indoloquinone antitumour agent E09 in biological specimens 532(1990)321

Ecdysteroids

Normal-phase high-performance liquid chromatographic analysis of polyhydroxysteroids using non-polar bonded silica columns 505(1990)408

Reversed-phase high-performance liquid chromatographic separation of 5 β ,20-

dihydroxyecdysone and 20-hydroxyecdysone on a β -cyclodextrin-bonded stationary phase 547(1991)443

Echinomycin

Liquid chromatographic investigation of quinoxaline antibiotics and their analogues by means of ultraviolet diode-array detection 507(1990)277

EcoR I

Affinity partitioning of restriction endonucleases. Application to the purification of EcoR I and EcoR V 538(1991)311

EcoR V

Affinity partitioning of restriction endonucleases. Application to the purification of EcoR I and EcoR V 538(1991)311

Eel growth hormone

Isolation and characterization of recombinant eel growth hormone expressed in *Escherichia coli* 515(1990)483

Characterization of recombinant eel growth hormone 547(1991)131

Egg development neurosecretory hormone

Rapid isolation of a neurohormone from mosquito heads by high-performance liquid chromatography 542(1991)508

Eicosanoids

Simultaneous reversed-phase extraction of lipoxygenase and cyclooxygenase metabolites of arachidonic acid in nasal secretions: methodological aspects 532(1990)217

Eicosapentaenoic acid

Enrichment of eicosapentaenoic acid and docosahexaenoic acid esters from esterified fish oil by programmed extraction-elution with supercritical carbon dioxide 515(1990)295

Nervonic acid *versus* tricosanoic acid as internal standards in quantitative gas chromatographic analyses of fish oil longer-chain *n*-3 polyunsaturated fatty acid methyl esters 533(1990)1

Elastin

Development and validation of a high-performance liquid chromatographic method for the determination of desmosines in tissues 507(1990)51

Elicitors

Isolation and purity determination of a glycoprotein elicitor from wheat stem rust by medium-pressure liquid chromatography 521(1990)187

Ellagitannins

Polyphenols of *Quercus robur* L. II. Preparative isolation by low-pressure and high-pressure liquid chromatography of heartwood ellagitannins 502(1990)107

Enalapril maleate

Elimination of peak splitting in the liquid chromatography of the proline-containing drug enalapril maleate 537(1991)249

Encainide

Encainide and metabolites analysis in serum or plasma using a reversed-phase high-performance liquid chromatographic technique 526(1990)260

Analysis of encainide and its three major metabolites in plasma by column liquid chromatography 534(1990)223

Endo- β -1,4-glucanase

Separation of the cellulolytic and xylanolytic enzymes of *Clostridium stercorarium* 521(1990)301

Endoproteinase Arg C

Analysis of endoproteinase Arg C action on adrenocorticotrophic hormone by capillary electrophoresis and reversed-phase high-performance liquid chromatography 543(1991)451

Endorphins

Combination of positron emission tomography with liquid chromatography in neuropharmacologic research 507(1990)303

Bioanalysis of the peptide des-enkephalin- γ -endorphin. On-line sample pretreatment using membrane dialysis and solid-phase isolation 511(1990)137

Static and scanning array detection in capillary electrophoresis-mass spectrometry 516(1990)147

Proenkephalin A and proopiomelanocortin peptides in human cerebrospinal fluid 530(1990)235

Bioanalysis of the neuropeptide des-enkephalin- γ -endorphin by high-performance liquid chromatography with on-line sample

pretreatment using gel permeation and solid-phase isolation 549(1991)185

Endosulfan

Thin-layer chromatographic detection of endosulfan and phosphamidon by use of cobalt acetate and *o*-tolidine 519(1990)268

Endotoxins

Column liquid chromatography of endotoxins 502(1990)329

Removal of endotoxins using macroporous spherical poly(γ -methyl L-glutamate) beads and their derivatives 530(1990)148

Enflurane

High-performance liquid chromatographic method for the direct determination of the volatile anaesthetics halothane, isoflurane and enflurane in water and in physiological buffer solutions 518(1990)250

Enisoprost

Analytical and preparative resolution of enantiomers of prostaglandin precursors and prostaglandins by liquid chromatography on derivatized cellulose chiral stationary phases 511(1990)97

Enkephalins

Combination of positron emission tomography with liquid chromatography in neuropharmacologic research 507(1990)303

Sensitive method for measuring hydrolysis of enkephalins in plasma, using high-performance liquid chromatography with electrochemical detection 532(1990)249

Fingerprinting of molecular components in individual human cerebrospinal fluid samples with a new micropurification system 548(1991)311

Enzymes

see also Proteins

Affinity gel interactions of alcohol and polyol dehydrogenases: anomalous behaviour and structural correlations 502(1990)69

Use of an activated nylon membrane (Immunodyne) as an affinity adsorbent for the purification of phosphofructokinase and phosphoglycerate kinase from yeast 502(1990)171

- Purification and characterization of hementin, a fibrinogenolytic protease from the leech *Haementeria ghilianii* 502(1990)359
- Chromatographic purification of glucose-6-phosphate dehydrogenase and lactate dehydrogenase from *Leuconostoc mesenteroides* 503(1990)197
- Purification of mammalian tyrosyl-tRNA synthetase by high-performance liquid chromatography 503(1990)277
- High-performance liquid chromatography of amino acids, peptides and proteins. XCVII. The influence of the gradient elution mode and displacer salt type on the retention properties of closely related protein variants separated by high-performance anion-exchange chromatography 506(1990)17
- Interrelation between nucleotide degradation and aldehyde formation in red blood cells. Influence of xanthine oxidase on metabolism: an application of nucleotide and aldehyde analyses by high-performance liquid chromatography 507(1990)311
- Modified high-performance liquid chromatographic determination of diamine oxidase activity in plasma 507(1990)333
- Design and applications of biomimetic anthraquinone dyes. III. Anthraquinone-immobilised C.I. Reactive Blue 2 analogues and their interaction with horse liver alcohol dehydrogenase and other adenine nucleotide-binding proteins 508(1990)109
- Specific adsorption of serine proteases on coated silica beads substituted with amidine derivatives 510(1990)123
- Rapid protein purification using phenylbutylamine-Eupergit: a novel method for large-scale procedures 510(1990)149
- Screening method for large numbers of dye-adsorbents for enzyme purification 510(1990)155
- Affinity chromatography on novel perfluorocarbon supports. Immobilisation of C.I. Reactive Blue 2 on a polyvinyl alcohol-coated perfluoropolymer support and its application in affinity chromatography 510(1990)177
- New aspects of dye-ligand affinity chromatography of lactate dehydrogenase applying spacer-mediated beaded cellulose 510(1990)189
- Competitive elution of lactate dehydrogenase from Cibacron Blue-bead cellulose with Cibacron Blue-dextran 510(1990)197
- One-step purification of trypsin and α -chymotrypsin by affinity chromatography on Eupergit-aprotinin, a novel carrier for purification of serine proteases 510(1990)239
- Binding of sodium dodecyl sulphate to an integral membrane protein and to a water-soluble enzyme. Determination by molecular-sieve chromatography with flow scintillation detection 512(1990)3
- Preparative chromatography of proteins. Design calculation procedure for gradient and stepwise elution 512(1990)89
- Purification of a amylase-pullulanase bifunctional enzyme by high-performance size-exclusion and hydrophobic-interaction chromatography 512(1990)131
- Assay of cytosine and cytidine deaminases by means of reversed-phase high-performance liquid chromatography 512(1990)395
- Characterization of temperature-sensitive cytidine triphosphate synthase mutations in bacteria by high-performance liquid chromatography 512(1990)403
- Applications of high-performance liquid chromatography to quantitation of metabolites and enzymes of the patulin pathway from *Penicillium patulum* 513(1990)237
- Evaluation of ammonium acetate as a volatile buffer for high-performance hydrophobic-interaction chromatography 515(1990)279
- High-performance liquid chromatography with a 3α -hydroxysteroid dehydrogenase postcolumn reactor and isoluminol-microperoxidase chemiluminescence detection 515(1990)329
- High-performance liquid chromatography of amino acids, peptides and proteins. C. Characterisation of coulombic interactive regions on hen lysozyme by high-performance liquid anion-exchange chromatography and computer graphic analysis 517(1990)317

- Purification of yeast alcohol dehydrogenase by Congo red affinity chromatography 519(1990)379
- Feather keratin as a ligand in an affinity chromatographic technique for isolation of protease from *Trichophyton verrucosum* 520(1990)223
- High-performance liquid chromatographic method for the study of solvent effects on the peptidase and esterase activity of thermitase 520(1990)333
- Application of high-performance liquid chromatography to the purification, disintegration and molecular mass determination of pyruvate dehydrogenase multi-enzyme complexes from different sources 521(1990)169
- Chromatographic separation of four Ser/Thr-protein phosphatases from solubilized ciliary membranes of *Paramecium tetraurelia* by heparin-Sepharose 521(1990)179
- Efficient high-performance liquid chromatographic system for the purification of a halobacterial serine protease 521(1990)211
- Purification of human placental prostaglandin 15-hydroxydehydrogenase 521(1990)231
- Purification of the glycoprotein glucose oxidase from *Penicillium amagasakiense* by high-performance liquid chromatography 521(1990)245
- Analytical fractionation of microsomal cytochrome P-450 isoenzymes from rat liver by high-performance ion-exchange chromatography 521(1990)251
- Isolation and partial characterization of angiotensinase A and aminopeptidase M from urine and human kidney by lectin affinity chromatography and high-performance liquid chromatography 521(1990)279
- Separation of the cellulolytic and xylanolytic enzymes of *Clostridium stercorarium* 521(1990)301
- Use of metal chelate affinity chromatography for removal of zinc ions from alkaline phosphatase from *Escherichia coli* 522(1990)171
- Improved methods for the purification of enzymes of the folate pathway in *Escherichia coli*.
I. Chromatographic methods 523(1990)53
- Investigation of affinity partition chromatography using formate dehydrogenase as a model 523(1990)103
- Combination of polymer-bound charged groups and affinity ligands for extraction of enzymes by partitioning in aqueous two-phase systems 523(1990)119
- Isolation of a fibrinogen-converting enzyme ficolzyme from the venom of *Bothrops asper* by one-step affinity chromatography on Blue Sepharose 523(1990)312
- Purification of urokinase by combined cation exchanger and affinity chromatographic cartridges 525(1990)297
- Purification of phospholipase-C from *Bacillus cereus* by affinity chromatography on 2-(4-aminophenylsulphonyl)ethyl-cellulose 525(1990)307
- Simple isocratic high-performance liquid chromatographic method for measuring pyridoxine kinase activity in crude biological extracts 526(1990)25
- Clinical application of subforms of creatine kinase MM and macro creatine kinases 526(1990)423
- Determination of proline iminopeptidase activity in bovine dental germs by high-performance liquid chromatography 527(1990)158
- High-performance liquid chromatographic determination of four kinds of biotin-containing carboxylase 529(1990)55
- New high-performance liquid chromatographic method for the determination of low activities of dihydropyrimidine dehydrogenase 529(1990)431
- High-performance liquid chromatographic procedure for the determination of serum prolidase activity 530(1990)116
- Assay of γ -glutamylcysteine synthetase and glutathione synthetase in erythrocytes by high-performance liquid chromatography with fluorimetric detection 530(1990)122

- Simple fractionation of phospholipase A₂ analogues from snake venom by high-performance liquid chromatography 530(1990)129
- Selective elution of soluble rat liver glutathione transferases from a glutathione-Sepharose affinity column 530(1990)263
- Enantiospecific assay for mammalian carbonyl reductase by liquid chromatography with fluorescence detection 532(1990)65
- Preparative purification of adenosine deaminase from human erythrocytes by affinity chromatography 532(1990)75
- Determination of succinylcholine hydrolytic enzyme activity in human plasma 533(1990)23
- Reversed-phase high-performance liquid chromatographic method for the measurement of polyamine oxidase activity 533(1990)187
- Capillary zone electrophoresis of α_1 -acid glycoprotein fragments from trypsin and endoglycosidase digestions 536(1991)31
- Purification of proteins on an epoxy-activated support by high-performance affinity chromatography 536(1991)95
- Automated phenylthiocarbonyl amino acid analysis of carboxypeptidase/aminopeptidase digests and acid hydrolysates 537(1991)153
- Protein-ligand interactions studied on bovine serum albumin with free and polymer-bound Cibacron Blue F3G-A as ligand with reference to affinity partitioning 537(1991)219
- Affinity partitioning of restriction endonucleases. Application to the purification of EcoR I and EcoR V 538(1991)311
- Mild hydrophobic interaction chromatography: prediction of chromatographic behaviour by preliminary analysis by "partition between aqueous two-phase systems" 538(1991)456
- Rapid detection and quantification of peroxidase activity in liquid chromatography 539(1991)198
- Investigation of liquid phase cooperative binding interactions on the capacity of insoluble affinity adsorbents 539(1991)245
- Interactions of the mitochondrial membrane rat liver D-3-hydroxybutyrate dehydrogenase with glass beads during adsorption chromatography. Relationships with the activation of the enzyme by phospholipids 539(1991)279
- Highly active enzyme preparations immobilized via matrix-conjugated anti-Fc antibodies 539(1991)335
- Unfolding of truncated and wild type aspartate aminotransferase studied by size-exclusion chromatography 539(1991)383
- Use of dye pseudo-affinity chromatography in the purification of homoserine dehydrogenase 539(1991)507
- Purification on poly(U)-Sepharose 4B of human breast cancer cell line T-47D DNA polymerases 539(1991)511
- Purification of NAD glycohydrolase from *Neurospora crassa* conidia by a polyclonal immunoabsorbent 539(1991)517
- Use of immobilized triazine dyes in the purification of DNA topoisomerase I (Topo I) and terminal deoxynucleotidyl transferase (TdT) from calf thymus 539(1991)525
- Monosized adsorbents for high-performance affinity chromatography. Application to the purification of calf intestinal alkaline phosphatase and human urine urokinase 540(1991)103
- Coated silica and its behaviour in dye-affinity chromatography 543(1991)9
- Analysis of endoproteinase Arg C action on adrenocorticotrophic hormone by capillary electrophoresis and reversed-phase high-performance liquid chromatography 543(1991)451
- Use of chromatofocusing for separation of β -lactamases. IX. Analytical chromatofocusing for the separation of a chromosomal cephalosporinase from *Proteus vulgaris* 545(1991)189
- Isotachophoretic determination of 2-5A phosphodiesterase 545(1991)407
- Subfractions of membranes from calf brain synaptosomes obtained and studied by liquid-liquid partitioning 547(1991)79

Evaluation of displacement chromatography for the recovery of lactate dehydrogenase from beef heart under scale-up conditions 547(1991)145

High-performance liquid chromatographic assay of anthranilate synthase from plant cell cultures 547(1991)155

Affinity of trypsin for amidine derivatives immobilized on dextran-coated silica supports 548(1991)255

Metal affinity displacement chromatography of proteins 549(1991)89

Mobile phase effects in the high-performance affinity purification of thermolysin 549(1991)195

Ephedrine

Détection spécifique par chromatographie gazeuse-spectrométrie de masse des amines sympathomimétiques urinaires dans le cadre des contrôles antidopage 541(1991)109

Epicathechin

Micro method for the identification of proanthocyanidin using thiolysis monitored by high-performance liquid chromatography 540(1991)401

Epidermal growth factor

Separation and microanalysis of growth factors by Phast system gel electrophoresis and by DNA synthesis in cell culture 543(1991)463

Epinephrine

see Adrenaline

Epoxydes

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

Epoxycholesterol

Determination of a cholesterol oxide mixture by a single-run high-performance liquid chromatographic analysis using benzylation 547(1991)105

Epoxy glucose

Modification of silica with glucose for the separation of proteins by high-performance liquid chromatography 508(1990)289

N-(2,3-Epoxypropyl)carbazole oligomers

Gas-phase synthesis, properties and some applications of acylamide stationary phases for

high-performance liquid chromatography 521(1990)29

Equilin

Comparison of the liquid chromatographic behaviour of selected steroid isomers using different reversed-phase materials and mobile phase compositions 537(1991)73

Ergocalciferol

Determination of vitamin D₂ in shiitake mushroom (*Lentinus edodes*) by high-performance liquid chromatography 545(1991)201

Ergot alkaloids, dihydro

Fast separation of dihydro ergot alkaloids on an octylsilica column 502(1990)241

Erythrocytes

Non-equilibrium analytical focusing field-flow fractionation using intrinsic hydrodynamic force and integral Doppler anemometry 520(1990)271

Erythromycin

Important parameters in liquid chromatography-continuous-flow fast atom bombardment mass spectrometry 511(1990)35

Determination of erythromycin base and 2'-acetylerythromycin in human plasma using high-performance liquid chromatography with electrochemical detection 526(1990)475

Erythropoietin

Separation of carbohydrate-mediated microheterogeneity of recombinant human erythropoietin by free solution capillary electrophoresis. Effects of pH, buffer type and organic additives 542(1991)459

Escalol 507

Determination of sunscreen agents in cosmetic products by gas chromatography and gas chromatography-mass spectrometry 513(1990)321

Esophageal carcinoma-associated proteins

Esophageal carcinoma-associated proteins detected by two-dimensional polyacrylamide gel electrophoresis 527(1990)315

Essential oils

Fractionation of lemon-peel oil by semi-preparative supercritical fluid chromatography 505(1990)237

Use of two-dimensional gas chromatography in the direct enantiomer separation of chiral essential oil components 508(1990)341

Possible value of a liquid crystal stationary phase for the gas chromatographic study of aromatic constituents of essential oils 513(1990)311

Separation of alkanes in *Citrus* essential oils by on-line coupled high-performance liquid chromatography-high-resolution gas chromatography 514(1990)317

Essential oil from *Thymus borgiae*, a new Iberian species of the *Hyphodromi* section 518(1990)230

Headspace gas chromatography with open-tubular columns for determining the evaporation rate of essential oils, perfumery compositions and perfumes 520(1990)169

Approach to direct chiral recognition of some terpenic hydrocarbon constituents of essential oils by gas chromatography systems via β -cyclodextrin complexation 543(1991)171

Esters

Fractionation of lemon-peel oil by semi-preparative supercritical fluid chromatography 505(1990)237

Gas chromatography of homologous esters. XXXIV. Alkyl borate and boronate esters 550(1991)155

Estradiol

Electrochemical detection for high-performance liquid chromatography using a Kel-F wax-graphite electrode 514(1990)171

Comparison of the liquid chromatographic behaviour of selected steroid isomers using different reversed-phase materials and mobile phase compositions 537(1991)73

Expert system for repeatability testing of high-performance liquid chromatographic methods 550(1991)257

Estriol

Electrochemical detection for high-performance liquid chromatography using a Kel-F wax-graphite electrode 514(1990)171

Estrogens

Electrochemical detection for high-performance liquid chromatography using a Kel-F wax-graphite electrode 514(1990)171

Analysis of diethylstilbestrol, dienestrol and hexestrol in biological samples by immunoaffinity

extraction and gas chromatography-negative-ion chemical ionization mass spectrometry 527(1990)267

Estrone

Electrochemical detection for high-performance liquid chromatography using a Kel-F wax-graphite electrode 514(1990)171

Ethambutol

Study of the stereochemistry of ethambutol using chiral liquid chromatography and synthesis 522(1990)195

Ethanol

Systematic errors with the use of internal standard calibration in gas chromatographic headspace analysis 518(1990)1

Comparison between ethanol and methanol for the reversed-phase high-performance liquid chromatographic analysis of leukotriene B₄ and its metabolites in cell incubation supernatants 532(1990)379

Multi-component principal component regression and partial least-squares analyses of overlapped chromatographic peaks 539(1991)123

Ethanolamine plasmalogens

Thin-layer chromatographic analysis of myelin lipids, their differential O-deacylation by primary alkylamines and their selective staining by thionine. A limited phylogenetic study 525(1990)339

Etheno adducts

Methods for the isolation and detection of etheno adducts in nucleotide pools in vivo following exposure to ethyl carbamate 526(1990)407

Ethenoadenine

Methods for the isolation and detection of etheno adducts in nucleotide pools in vivo following exposure to ethyl carbamate 526(1990)407

Etheno adenosine 5'-diphosphate

Methods for the isolation and detection of etheno adducts in nucleotide pools in vivo following exposure to ethyl carbamate 526(1990)407

Etheno adenosine 5'-monophosphate

Methods for the isolation and detection of etheno adducts in nucleotide pools in vivo following exposure to ethyl carbamate 526(1990)407

Etheno adenosine 5'-triphosphate

Methods for the isolation and detection of etheno adducts in nucleotide pools in vivo following exposure to ethyl carbamate 526(1990)407

Ethers

Lead selenide as a polar adsorbent for gas chromatography 520(1990)15

Ethinyl estradiol

Expert system for repeatability testing of high-performance liquid chromatographic methods 550(1991)257

Ethosuximide

Simultaneous determination of six antiepileptic drugs by capillary gas chromatography 527(1990)428

Ethoxylated alkylphenols

Chromatographic separation of surfactants. XII. Quantification of results in trial high-performance liquid chromatography of ethoxylated surfactants 509(1990)201

Ethoxy-1,2-phenylenediamine

Assay for both ascorbic and dehydroascorbic acid in dairy foods by high-performance liquid chromatography using precolumn derivatization with methoxy- and ethoxy-1,2-phenylenediamine 543(1991)367

Ethyl acetate

Headspace analysis of polar compounds in air 509(1990)107

Ethylbenzene

Retention times and heats of adsorption of aromatic compounds on carbon adsorbents 506(1990)335

Blended liquid crystalline stationary phases in capillary gas chromatography 520(1990)85

Determination of monocyclic aromatic hydrocarbons in plant cuticles by gas chromatography-mass spectrometry 541(1991)83

Analytical isotachopheresis in biological monitoring of exposure to industrial chemicals (Review) 545(1991)369

Ethyl benzoate

Applications of high-speed counter-current chromatography for the separation and isolation of natural products 538(1991)193

Ethyl bromide

Chromatograms of second-order reactions on chromatographic columns 520(1990)109

Peculiarities of aromatic hydrocarbon retention in normal-phase high-performance liquid chromatography with eluents containing halide derivatives 520(1990)315

Ethyl chloroformate

Separation of carboxylic acid enantiomers by gas chromatography after rapid derivatization with (*R*)- or (*S*)-1-phenylethylamine after activation by ethyl chloroformate 508(1990)333

10-Ethyl-10-deaza-aminopterin

High-performance liquid chromatographic method for the analysis of 10-ethyl-10-deaza-aminopterin and metabolites in plasma 529(1990)135

Ethyl(diethoxy)benzenes

Gas chromatographic-mass spectrometric identification of impurities in 1,2-diethoxybenzene 520(1990)149

O-Ethyl S-2-diisopropylaminoethyl methylphosphonothioate

Determination of O-ethyl S-2-diisopropylaminoethyl methylphosphonothioate (VX) by thermospray liquid chromatography-mass spectrometry 523(1990)151

Ethylene

On-line chromatography with capillary columns and temperature programming. Determination of traces of 2-butenes in 1-butene and analysis of a reformat 509(1990)33

N,N-Ethylenebis(2-aminobutan-1-ol)

Study of the stereochemistry of ethambutol using chiral liquid chromatography and synthesis 522(1990)195

Ethylenediamine

Liquid chromatography-mass spectrometry studies of 9-fluorenylmethyl chloroformate derivatives of polyamines 540(1991)199

Ethylenediaminephosphoramidates

Preparation of ethylenediaminephosphoramidates of nucleotides and derivatization with fluorescein isothiocyanate 512(1990)409

Ethylenediaminetetraacetato-chromium (III)

Anomalous bandspreading of ethylenediaminetetraacetato-chromium(III) ion in

reversed-phase high-performance liquid chromatography. An example of slow equilibrium kinetics 545(1991)123

Ethylene dimethacrylate

Phase transition chromatography of polyesters on macroporous glycidyl methacrylate-ethylene dimethacrylate copolymers 509(1990)233

N,N'-1,2-Ethylenediylbis-L-cysteine diethyl ester

Separation and detection of oxidation products in Neurolite raw material 550(1991)549

Ethylene glycol

Analytical isotachopheresis in biological monitoring of exposure to industrial chemicals (Review) 545(1991)369

Ethylene oxide

Use of sulfur chemiluminescence detection after supercritical fluid chromatography 517(1990)491

Ethyl fenthion

Gas-liquid chromatographic analysis of ethyl fenthion in tissues of native birds 508(1990)199

2-Ethylhexanoic acid

Gas chromatographic determination of 2-ethylhexanol and 2-ethylhexanoic acid as derivatives suitable for electron-capture and nitrogen-phosphorus detection after single reaction with heptafluorobutyrylimidazole 509(1990)383

2-Ethylhexanol

Gas chromatographic determination of 2-ethylhexanol and 2-ethylhexanoic acid as derivatives suitable for electron-capture and nitrogen-phosphorus detection after single reaction with heptafluorobutyrylimidazole 509(1990)383

Ethyl loflazepate

Collection of analytical data for benzodiazepines and benzophenones. Appendix 538(1991)277

Ethylmercury chloride

Evaluation of an alternating current plasma emission detector for high-performance liquid chromatography 513(1990)159

Ethyl methacrylate-butyl methacrylate

Separation and detection of styrene-alkyl methacrylate and ethyl methacrylate-butyl methacrylate copolymers by liquid adsorption chromatography using a dichloroethane mobile phase and a UV detector 541(1991)375

Etidocaine

Retention prediction based on the electrostatic model of reversed-phase ion-pair high-performance liquid chromatography: effect of pairing ion concentration 535(1990)181

Etilefrine

High-performance liquid chromatographic determination of etilefrine in human plasma using combined solid-phase and organic solvent extraction and electrochemical detection 525(1990)210

Etomidate

High-performance liquid chromatographic determination of etomidate in plasma 529(1990)217

Sensitive and automated gas chromatographic method for the determination of etomidate in plasma samples 532(1990)150

Eugenol

Sensitive high-performance liquid chromatographic assay for the determination of eugenol in body fluids 525(1990)369

Behaviour of phenols under supercritical fluid chromatographic conditions in relation to the pyrolysis of lignocellulosic materials 540(1991)225

Eupergit C

One-step purification of trypsin and α -chymotrypsin by affinity chromatography on Eupergit-aprotinin, a novel carrier for purification of serine proteases 510(1990)239

Effect of polyethylene glycol on the non-specific adsorption of proteins to Eupergit C and agarose 510(1990)271

Enhanced activity of immobilized dimethylmaleic anhydride-protected poly- and monoclonal antibodies 510(1990)303

Eupergit C as a carrier for high-performance liquid chromatographic-based immunopurification of antigens and antibodies 510(1990)311

Eusolex 8020

Determination of sunscreen agents in cosmetic products by gas chromatography and gas chromatography-mass spectrometry 513(1990)321

Exo- β -1,4-glucanase

Separation of the cellulolytic and xylanolytic enzymes of *Clostridium stercorarium* 521(1990)301

Explosives

Reversed-phase ion-pair chromatography with indirect photometric detection of inorganic anions from residues of low explosives 517(1990)305

Capillary supercritical fluid chromatography of explosives. Investigations on the interactions between the analytes, the mobile phase and the stationary phase 521(1990)63

F**Factor VIII**

see Coagulation factors

Fatty acid methyl esters

Argentation chromatography of fatty acid methyl esters using silver-loaded solid-phase extraction columns 504(1990)202

Multivariate optimization of a gas-liquid chromatographic analysis of fatty acid methyl esters of blackcurrant seed oil 505(1990)385

Location of double bonds in polyunsaturated fatty acids by gas chromatography-mass spectrometry after 4,4-dimethylloxazoline derivatization 541(1991)89

Fatty acid methyl esters, cyclic

Isomer identification and gas chromatographic retention studies of monomeric cyclic fatty acid methyl esters 537(1991)329

Fatty acid polymers

Combination of adsorption and size-exclusion chromatography for the determination of fatty acid monomers, dimers and polymers 514(1990)37

Fatty acids

see also Carboxylic acids and Organic acids

Improved automated precolumn derivatization reaction of fatty acids with

bromomethylmethoxycoumarin as label 502(1990)423

Post-column adjustment of conditions for peroxyoxalate chemiluminescence detection for high-performance liquid chromatography 503(1990)155

Determination of binary diffusion coefficients of organic compounds in supercritical carbon dioxide by supercritical fluid chromatography 505(1990)169

Identification of fatty acids longer than C₃₂ in a sulphate-reducing bacterium by reversed-phase high-performance liquid chromatography and gas chromatography-mass spectrometry 508(1990)275

Determination of resin and fatty acids in pulp and paper mill effluents and white waters by gas-liquid chromatography 509(1990)65

Gas-liquid chromatographic method for the determination of marine wax esters according to the degree of unsaturation 513(1990)327

Identification of very long polyenoic acids as picolinyl esters by Ag⁺ ion-exchange high-performance liquid chromatography, reversed-phase high-performance liquid chromatography and gas chromatography-mass spectrometry 513(1990)344

Preparation of pyrrolidides from fatty acids via trimethylsilyl esters for gas chromatographic-mass spectrometric analysis 513(1990)405

Combination of adsorption and size-exclusion chromatography for the determination of fatty acid monomers, dimers and polymers 514(1990)37

Determination of malonaldehyde in oxidized biological materials by high-performance liquid chromatography 515(1990)391

Rapid determination by high-performance liquid chromatography of free fatty acids released from rat platelets after derivatization with monodansylcadaverine 515(1990)467

Chemiluminescence detection of free fatty acids by high-performance liquid chromatography with immobilized enzymes 516(1990)450

Dynamic impregnation of silica stationary phases for the argentation chromatography of lipids 519(1990)349

- Quantitative determination of free volatile fatty acids from dairy products on a Nukol capillary column 519(1990)369
- Gas chromatographic–mass spectrometric identification of the fatty acids in borage oil using the picolinyl ester derivatives 521(1990)89
- Liquid chromatographic determination of free and total fatty acids in milk and milk products as their 2-nitrophenylhydrazides 523(1990)235
- Rapid analysis of non-esterified fatty acids as methyl esters from different biological specimens by gas chromatography after one-step esterification 526(1990)319
- Separation and quantitation of long-chain free fatty acids in human serum by high-performance liquid chromatography 526(1990)331
- Analysis of cellular fatty acids and proteins by capillary gas chromatography and sodium dodecyl sulphate polyacrylamide gel electrophoresis to differentiate *Mycobacterium avium*, *Mycobacterium intracellulare* and *Mycobacterium scrofulaceum* (MAIS) complex species 532(1990)209
- Cellular fatty acids of *Bacteroides forsythus* 533(1990)141
- Fatty acid contents of the yeast and mycelial phase of *Candida albicans* 533(1990)152
- Applications of preparative high-performance liquid chromatography in oleochemical research 536(1991)75
- Use of ion-exclusion chromatography for monitoring fatty acids produced by bacterial anaerobic degradation of tetrachloroethene in ground water 536(1991)193
- Packed-microbore supercritical fluid chromatography with flame ionization detection of abused vegetable oils 540(1991)271
- Location of double bonds in polyunsaturated fatty acids by gas chromatography–mass spectrometry after 4,4-dimethyloxazoline derivatization 541(1991)89
- Determination of bovine butterfat triacylglycerols by reversed-phase liquid chromatography and gas chromatography 543(1991)81
- Re-examination of the fatty acid composition of *Biota orientalis* seed oil by gas chromatography–mass spectrometry of the picolinyl ester derivatives 543(1991)257
- Determination of resin and fatty acids in sediments near pulp mill locations 547(1991)315
- Fatty acids, chlorinated phenol conjugates**
Fatty acid conjugates of chlorinated phenols and their high-performance liquid chromatographic analysis 537(1991)85
- Fatty acids, volatile**
Trace determination of lower volatile fatty acids in sediments by gas chromatography with chemically bonded FFAP columns 511(1990)317
- Fatty alcohol ethoxylates**
Applications of preparative high-performance liquid chromatography in oleochemical research 536(1991)75
- Fatty alcohols**
Long-chain fatty alcohol quantitation in subfemtomole amounts by gas chromatography–negative ion chemical ionization mass spectrometry. Application to long-chain acyl coenzyme A measurement 509(1990)325
- Gas–liquid chromatographic method for the determination of marine wax esters according to the degree of unsaturation 513(1990)327
- Felbinac**
Simultaneous high-performance liquid chromatographic determination of ciprofloxacin, fenbufen and felbinac in rat plasma 530(1990)186
- Feline allergen**
Immobilized metal ion affinity chromatography for the purification of *Fel d* I, a cat major allergen, from a house-dust extract 512(1990)177
- Felodipine**
Enantioselective determination of felodipine and other chiral dihydropyridine calcium entry blockers in human plasma 528(1990)343
- Felypressin**
Liquid chromatographic determination of felypressin using a column-switching technique and post-column derivatization 521(1990)141
- Animal test or chromatography? Validated high-performance liquid chromatographic assay

as an alternative to the biological assay for orniopressin 548(1991)335

Fenbufen

Determination of non-steroidal anti-inflammatory analgesics in solid dosage forms by high-performance liquid chromatography on underivatized silica with aqueous mobile phase 504(1990)381

Simultaneous high-performance liquid chromatographic determination of ciprofloxacin, fenbufen and felbinac in rat plasma 530(1990)186

Fenitrothion

Small-scale method for the determination of organophosphorus insecticides in tea using sulphuric acid as clean-up reagent 516(1990)446

Fenoprofen

Determination of non-steroidal anti-inflammatory analgesics in solid dosage forms by high-performance liquid chromatography on underivatized silica with aqueous mobile phase 504(1990)381

Stereoselective high-performance liquid chromatographic determination of ketoprofen, ibuprofen and fenoprofen in plasma using a chiral α_1 -acid glycoprotein column 532(1990)295

Stereoselective analysis of fenoprofen and its metabolites 534(1990)127

Fenoxon sulphone

High-performance liquid chromatographic separation of fenthion and its metabolites 540(1991)406

Fenoxon sulphoxide

High-performance liquid chromatographic separation of fenthion and its metabolites 540(1991)406

Fenpropathrin

Elution orders in the separation of enantiomers by high-performance liquid chromatography with some chiral stationary phases 535(1990)213

Fenthion

High-performance liquid chromatographic separation of fenthion and its metabolites 540(1991)406

Ferrioxamines

Identification of ferrioxamines by high-performance liquid chromatography and diode-array detection 513(1990)255

Simultaneous determination of desferrioxamine and ferrioxamine by high-performance liquid chromatography with amperometric detection 527(1990)481

Ferrocene

Electrochemical detection system for supercritical fluid chromatography 519(1990)256

Ferroceneboronic acid

Ferroceneboronic acid as a derivatization reagent for the determination of brassinosteroids by high-performance liquid chromatography with electrochemical detection 515(1990)227

Fertilizers

Characterization of humified compounds by extraction and fractionation on solid polyvinylpyrrolidone 509(1990)141

Ferulic acid

Optimization of electrochemical detection in the high-performance liquid chromatography of lignin phenolics from lignocellulosic by-products 507(1990)439

Automated multiple development high-performance thin-layer chromatographic analysis of natural phenolic compounds 511(1990)396

 α -Fetoprotein

Analytical- and preparative-scale separation of molecular variants of α -fetoprotein by anion-exchange chromatography on MonobeadTM resins 525(1990)59

Fibrinogen-converting enzyme

Isolation of a fibrinogen-converting enzyme ficozyme from the venom of *Bothrops asper* by one-step affinity chromatography on Blue Sepharose 523(1990)312

Fibroblast growth factor

Affinity chromatography of fibroblast growth factors on substituted polystyrene 526(1990)35

Isolation and characterization of two different molecular forms of basic fibroblast growth factor extracted from human placental tissue 539(1991)393

Affinity chromatography of fibroblast growth factors on coated silica supports grafted with heparin 539(1991)417

Fibroblast growth factor, basic

High-performance affinity chromatography of basic fibroblast growth factor on polystyrene

sulphonate resins modified with serine
510(1990)141

Fibronectin

Comparative affinity chromatographic studies using novel grafted polyamide and poly(vinyl alcohol) media 539(1991)307

Ficozyme

Isolation of a fibrinogen-converting enzyme ficozyme from the venom of *Bothrops asper* by one-step affinity chromatography on Blue Sepharose 523(1990)312

Filamentous haemagglutinin

Simultaneous determination of *Bordetella pertussis* toxin and filamentous haemagglutinin concentrations by hydroxyapatite high-performance liquid chromatography 512(1990)227

FK-506

Determination of a novel potent immunosuppressant (FK-506) in rat serum and lymph by high-performance liquid chromatography with chemiluminescence detection 530(1990)212

FLA 981

Separation of anionic and cationic compounds of biomedical interest by high-performance liquid chromatography on porous graphitic carbon 515(1990)183

Flavanols

Separation of peracetylated flavanoid and flavanoid polyphenols by normal-phase high-performance liquid chromatography on a cyano-silica column and their determination 514(1990)334

Flavanones

Optical resolution of flavanones by high-performance liquid chromatography on various chiral stationary phases 514(1990)147

Separation of peracetylated flavanoid and flavanoid polyphenols by normal-phase high-performance liquid chromatography on a cyano-silica column and their determination 514(1990)334

Resolution of complex mixtures of phenolics in poplar bud exudate by analysis of gas chromatography-mass spectrometry data 519(1990)145

Flavanones, polyhydroxylated

Improved chiral stationary phase based on cellulose triacetate supported on non-macroporous silica gel diol for the high-performance liquid chromatographic separation of racemic flavanones and diastereomeric flavanone glycosides 502(1990)287

Flavin-adenine dinucleotide

Determination of flavins in dairy products by high-performance liquid chromatography using sorboflavin as internal standard 511(1990)359

Flavins

Determination of flavins in dairy products by high-performance liquid chromatography using sorboflavin as internal standard 511(1990)359

Flaviviruses

Purification and analysis of infectious virions and native non-structural antigens from cells infected with tick-borne encephalitis virus 502(1990)59

Flavones

Separation of peracetylated flavanoid and flavanoid polyphenols by normal-phase high-performance liquid chromatography on a cyano-silica column and their determination 514(1990)334

Resolution of complex mixtures of phenolics in poplar bud exudate by analysis of gas chromatography-mass spectrometry data 519(1990)145

Gas chromatography of some polymethoxylated flavones and their determination in orange peel oils 549(1991)440

Flavones, methoxylated

High-performance liquid chromatography with diode-array ultraviolet detection of methoxylated flavones in *Orthosiphon* leaves 547(1991)439

Flavonoid aglycones

High-performance liquid chromatographic determination of five widespread flavonoid aglycones 508(1990)236

Flavonoid glucosides

High-performance liquid chromatographic determination of flavonoid glucosides from *Helichrysum italicum* 537(1991)449

Separation of flavonoid glucosides from their galactosidic analogues by thin-layer chromatography 540(1991)469

Flavonoid polyphenols

Separation of peracetylated flavanoid and flavonoid polyphenols by normal-phase high-performance liquid chromatography on a cyanosilica column and their determination 514(1990)334

Flavonoids

Application of gas chromatography–mass spectrometry to the identification of isoflavonoids in lupine root extracts 508(1990)391

Determination of nine flavonoids and coumarins in licorice root by high-performance liquid chromatography 513(1990)247

Separation of peracetylated flavanoid and flavonoid polyphenols by normal-phase high-performance liquid chromatography on a cyanosilica column and their determination 514(1990)334

Essential oil from *Thymus borgiae*, a new Iberian species of the *Hyphodromi* section 518(1990)230

Assay of hydroxyfarrerol in biological fluids 535(1990)255

High-performance liquid chromatography of red fruit anthocyanins 537(1991)101

Isocratic column liquid chromatographic separation of a complex mixture of epicuticular flavonoid aglycones and intracellular flavonol glycosides from *Cistus laurifolius* L. 537(1991)453

Studies on the preparative capability of the horizontal flow-through coil planet centrifuge and high-performance liquid chromatography in the separation of polar compounds from *Oxytropis ochrocephala* Bunge 538(1991)219

Application of micellar electrokinetic capillary chromatography to the determination of flavonoid drugs 549(1991)367

Fast development of a robust high-performance liquid chromatographic method for *Ginkgo biloba* based on computer simulation 550(1991)39

Computer-aided optimization of high-performance liquid chromatographic analysis of flavonoids from some species of the genus *Althaea* 550(1991)71

Flavonol glycosides

Isocratic column liquid chromatographic separation of a complex mixture of epicuticular flavonoid aglycones and intracellular flavonol glycosides from *Cistus laurifolius* L. 537(1991)453

Flavonol-3-O-glycosides

Application of micellar electrokinetic capillary chromatography to the determination of flavonoid drugs 549(1991)367

Flavonols

Separation of peracetylated flavanoid and flavonoid polyphenols by normal-phase high-performance liquid chromatography on a cyanosilica column and their determination 514(1990)334

Fleroxacin

Determination of the new fluoroquinolone fleroxacin and its N-demethyl and N-oxide metabolites in plasma and urine by high-performance liquid chromatography with fluorescence detection 527(1990)91

Fluazifop-P-butyl

Determination of enantiomeric purity of paclobutrazol and fluazifop-P-butyl using a diode-laser-based polarimetric high-performance liquid chromatography detector 513(1990)209

Fluconazole

Rapid determination of serum levels of a new antifungal agent, fluconazole, by high-performance liquid chromatography 529(1990)223

Fludiazepam

Collection of analytical data for benzodiazepines and benzophenones. Appendix 538(1991)277

Flufenoxuron

Analysis of the pesticide flufenoxuron in apples and kiwifruit by high-performance liquid chromatography 516(1990)442

Flumazenil

High-performance liquid chromatographic assay to determine midazolam and flumazenil simultaneously in human plasma 530(1990)177

Flumequine

Simple and rapid method for the determination of flumequine and oxolinic acid in salmon (*Salmo salar*) plasma by high-performance liquid chromatography and fluorescence detection 530(1990)452

Automated column-switching high-performance liquid chromatographic determination of flumequine and oxolinic acid in extracts from fish 532(1990)363

Flumetralin

Gas chromatographic determination of flumetralin in tobacco 539(1991)237

S-Flunoxaprofen

Fluorescence assay for small peptides and amino acids: high-performance liquid chromatographic determination of selected substrates using activated S-flunoxaprofen as a chiral derivatizing agent 528(1990)55

Fluoranthene

Solid-surface room-temperature phosphorescence detection for high-performance liquid chromatography 508(1990)37

9-Fluorenylmethylchloroformate

Amino acid analysis by high-performance liquid chromatography with methanesulfonic acid hydrolysis and 9-fluorenylmethylchloroformate derivatization 514(1990)227

Separation of amphetamines by supercritical fluid chromatography 515(1990)385

Fluorescamine

Determination of the monoamine oxidase B inhibitor Ro 19-6327 in plasma by high-performance liquid chromatography using precolumn derivatization with fluorescamine and fluorescence detection 507(1990)187

Fluorescein

Indirect fluorescence detection of sugars separated by capillary zone electrophoresis with visible laser excitation 515(1990)639

Fluoride

Use of β -diketonate anions as eluent in non-suppressed ion chromatography. Acetylacetonate eluent for the separation of fluoride and chloride 523(1990)257

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Determination of analytes at extreme concentration ratios by gradient ion chromatography with solid-phase reaction detection 546(1991)151

Recent advances in the simultaneous determination of anions and silica in high-purity water 546(1991)209

Ion chromatography for the analysis of household consumer products 546(1991)351

Study of the fluoride adsorption characteristics of porous microparticulate zirconium oxide 549(1991)43

Fluoroacetic acid

Chromatographic analysis of chemical warfare agents (Review) 503(1990)293

Fluoroamino acids

Ligand-exchange chromatography of α -trifluoromethyl- α -amino acids on chiral sorbents 511(1990)115

3'-Fluoro-3'-deoxythymidine

Determination of 3'-azido-3'-deoxythymidine, 2',3'-dideoxycytidine, 3'-fluoro-3'-deoxythymidine and 2',3'-dideoxyinosine in biological samples by high-performance liquid chromatography 534(1990)101

5-Fluoro-2'-deoxyuridine monophosphate

Measurement of 5-fluorouracil and its active metabolites in tissue 507(1990)259

(\pm)-9-Fluoro-6,7-dihydro-8-(4-hydroxy-1-piperidyl)-5-methyl-1-oxo-1*H*,5*H*-benzo[*i,j*]-quinoline-2-carboxylic acid

High-performance liquid chromatographic procedure for the determination of rat plasma concentrations of a new antibacterial agent, (\pm)-9-fluoro-6,7-dihydro-8-(4-hydroxy-1-piperidyl)-5-methyl-1-oxo-1*H*,5*H*-benzo[*i,j*]-quinoline-2-carboxylic acid, for topical use 526(1990)235

7-Fluoro-4-nitrobenzo-2-oxa-1,3-diazole

Precolumn derivatization technique for high-performance liquid chromatographic determination of penicillins with fluorescence detection 504(1990)359

Fluoropyrimidines

High-performance liquid chromatography with chemiluminescence detection of serum levels of pre-column derivatized fluoropyrimidine compounds 530(1990)57

Fluoroquinolone

Determination of the new fluoroquinolone feroxacin and its N-demethyl and N-oxide

metabolites in plasma and urine by high-performance liquid chromatography with fluorescence detection 527(1990)91

Fluoroquinolone N-oxide

Determination of the new fluoroquinolone feroxacin and its N-demethyl and N-oxide metabolites in plasma and urine by high-performance liquid chromatography with fluorescence detection 527(1990)91

Fluorosurfactant

Improved capillary zone electrophoretic separation of basic proteins, using a fluorosurfactant buffer additive 547(1991)544

5-Fluorouracil

Measurement of 5-fluorouracil and its active metabolites in tissue 507(1990)259

High-performance liquid chromatography on silica dynamically modified with hydrazinium derivatives 521(1990)19

Stability-indicating high-performance liquid chromatographic method for the simultaneous determination of cisplatin and 5-fluorouracil in 0.9% sodium chloride for injection 528(1990)517

5'-Fluorouracil

Rapid and simple high-performance liquid chromatographic assay for 5'-fluorouracil in plasma for bioavailability studies 532(1990)411

5-Fluorouridine

Determination of pseudouridine in human urine and serum by high-performance liquid chromatography with post-column fluorescence derivatization 515(1990)495

5-Fluorouridine triphosphate

Measurement of 5-fluorouracil and its active metabolites in tissue 507(1990)259

Fluparoxan

Determination of fluparoxan (GR50360) in plasma by gas chromatography 527(1990)436

Fluoxamine

Naphthalene- and anthracene-2,3-dialdehyde as precolumn labelling reagents for primary amines using reversed- and normal-phase liquid chromatography with peroxyoxalate chemiluminescence detection 511(1990)155

Folacins

Optimized high-performance liquid chromatographic procedure for the separation

and quantification of the main folacins and some derivatives. I. Chromatographic system 540(1991)207

Optimized high-performance liquid chromatographic procedure for the separation and determination of the main folacins and some derivatives. II. Extraction method and application to rat liver 545(1991)91

Follicle-stimulating hormone

Separation of human glycoprotein hormones and their subunits by reversed-phase liquid chromatography 529(1990)33

Folligen

Investigation of the chemical stability of (D-Phe⁶, Gln⁸) GnRH (1-9)-ethylamide (Folligen) by high-performance liquid chromatography 547(1991)121

Food Color Red No. 106

Purification of Food Color Red No. 106 (Acid Red) using high-speed counter-current chromatography 538(1991)149

Formaldehyde

High-performance liquid chromatographic determination of free formaldehyde in cosmetics preserved with Dowicil 200 502(1990)193

Qualitative analysis of a commercially available phenol-formaldehyde resin, by static and dynamic headspace analysis using a mass-selective detector 509(1990)101

Determination of glycerol in foods by high-performance liquid chromatography with fluorescence detection 541(1991)265

Formate

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Ion chromatography for the analysis of household consumer products 546(1991)351

Ion chromatography in the manufacture of multilayer circuit boards 546(1991)369

Formate dehydrogenase

Investigation of affinity partition chromatography using formate dehydrogenase as a model 523(1990)103

Investigations of liquid-liquid partition chromatography of proteins 548(1991)3

Formazans

Formazan derivatives as the precolumn derivatization reagents in a coupled high-performance liquid chromatographic-spectrophotometric system for trace metal determination 515(1990)603

Formic acid

Column-friendly reversed-phase high-performance liquid chromatography of peptides and proteins using formic acid with sodium chloride and dynamic column coating with crown ethers 539(1991)37

Formononetin

Determination of isoflavones from *Ononis spinosa* L. extracts by high-performance liquid chromatography with ultraviolet diode-array detection 513(1990)397

Separation and identification of phytoalexins from leaves of groundnut (*Arachis hypogaea*) and development of a method for their determination by reversed-phase high-performance liquid chromatography 547(1991)185

Fosinopril

High-performance liquid chromatography of the drug fosinopril 507(1990)165

Freon-22

Supercritical fluid extraction and chromatography of steroids with Freon-22 515(1990)515

Freons

Application of gas chromatography with electron-capture detection to trace analysis of halogenated compounds 509(1990)115

Fructose

Simultaneous determination of organic acids and sugars in apples by gas-liquid chromatography 520(1990)201

Fuel

Determination of individual hydrocarbons in automobile exhaust from gasoline-, methanol- and variable-fueled vehicles 503(1990)51

Fulvic acids

Analysis of fulvic acids by ion-pair chromatography 547(1991)203

Fungicides

see Pesticides

Furans

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

Furazolidone

High-performance liquid chromatographic determination of furazolidone in Atlantic salmon (*Salmo salar*) tissue 528(1990)495

Simultaneous determination of residual synthetic antibacterials in fish by high-performance liquid chromatography 538(1991)484

Analysis of veterinary drugs using supercritical fluid chromatography and supercritical fluid chromatography-mass spectrometry 540(1991)257

G

Gabapentin

Determination of gabapentin in plasma and urine by capillary column gas chromatography 529(1990)167

Galactolipids

Purification of galactolipids by high-performance liquid chromatography for monolayer and Langmuir-Blodgett film studies 542(1991)307

Galactonic acid

Monitoring and purification of gluconic and galactonic acids produced during fermentation of whey hydrolysate by *Gluconobacter oxydans* 507(1990)321

Galactose

Selective post-column liquid chromatographic determination of sugars in spent sulphite liquor with two enzymatic electrochemical detectors in parallel 506(1990)423

High-performance liquid chromatography of reaction mixtures from the oxidation and degradation of lactose 549(1991)113

α -D-Galactosidase

Electrophoretic study of α -D-mannosidase and α -D-galactosidase from dry seeds of *Pisum sativum* 540(1991)365

 β -Galactosidase

Preparative chromatography of proteins. Design calculation procedure for gradient and stepwise elution 512(1990)89

Evaluation of kinetic models for biospecific adsorption and its implications for finite bath and column performance 548(1991)25

 α -D-Galactosides

Immobilized mucin : an affinity matrix for the isolation of winged bean acidic and basic lectins 503(1990)272

 β -D-Galactosides

Immobilized mucin : an affinity matrix for the isolation of winged bean acidic and basic lectins 503(1990)272

Galactosylceramide

Analytical and preparative separation of glucosylceramide and galactosylceramide by borate-impregnated silica gel chromatography 513(1990)379

Galanin

Static and scanning array detection in capillary electrophoresis-mass spectrometry 516(1990)147

***Galega* species**

Determination of vasicine and related alkaloids by gas chromatography-mass spectrometry 505(1990)424

Gallamine

Simple procedure involving derivatisation and thin-layer chromatography for the estimation of trace levels of halogenated alkylamines and their hydrolysis products in drug substances and formulations 543(1991)211

Gallic acid

Analysis of the components of *Paeonia radix* by capillary zone electrophoresis 515(1990)653

Gallium

High-performance liquid chromatographic study of ligand-exchange reactions of fluorinated metal β -diketone chelates 517(1990)185

Simultaneous determination of molybdenum, vanadium, gallium, copper, iron and indium as

8-quinolinolate complexes by high-performance liquid chromatography 539(1991)225

Gallopamil

Determination of gallopamil in serum by gas chromatography-mass spectrometry 525(1990)183

Gammacerane

Tandem mass spectrometry —an additional dimension of chromatography for the determination of biomarkers in fossil fuels (Review) 550(1991)193

Gasoline

Determination of individual hydrocarbons in automobile exhaust from gasoline-, methanol- and variable-fueled vehicles 503(1990)51

On-line chromatographic analyser for determining the composition and octane number of reforming process effluents 509(1990)47

Evaluation of an alternating current plasma emission detector for high-performance liquid chromatography 513(1990)159

Enhanced possibilities for identification by the use of series-coupled capillary gas chromatographic columns. I. General exposition and application of the retention index concept 520(1990)3

Solubility of gasoline components in different lubricants for combustion engines determined by gas-liquid partition chromatography 538(1991)241

Gelsolin

Affinity chromatography of human plasma gelsolin with polyphosphate compounds on immobilized Cibacron Blue F3GA 526(1990)397

Genistein

Application of gas chromatography-mass spectrometry to the identification of isoflavonoids in lupine root extracts 508(1990)391

Determination of isoflavones from *Ononis spinosa* L. extracts by high-performance liquid chromatography with ultraviolet diode-array detection 513(1990)397

Gentamicin

High-performance liquid chromatographic determination of isepamicin in plasma, urine and dialysate 526(1990)487

Gentisaldehyde

Applications of high-performance liquid chromatography to quantitation of metabolites and enzymes of the patulin pathway from *Penicillium patulum* 513(1990)237

Gentisyl alcohol

Applications of high-performance liquid chromatography to quantitation of metabolites and enzymes of the patulin pathway from *Penicillium patulum* 513(1990)237

Gentisyl quinone

Applications of high-performance liquid chromatography to quantitation of metabolites and enzymes of the patulin pathway from *Penicillium patulum* 513(1990)237

Gibberellins

Gradient C₁₈ high-performance liquid chromatography of gibberellins 543(1991)471

Ginkgolides

Determination of ginkgolides and bilobalide in *Ginkgo biloba* leaves and phytopharmaceuticals 543(1991)375

Fast development of a robust high-performance liquid chromatographic method for *Ginkgo biloba* based on computer simulation 550(1991)39

Ginsenosides

Utilizing column selectivity in developing a high-performance liquid chromatographic method for ginsenoside assay 504(1990)139

Simultaneous determination of ginsenosides and saikosaponins by high-performance liquid chromatography 507(1990)327

Gizzerosine

o-Phthalaldehyde post-column derivatization for the determination of gizzerosine in fish meal by high-performance liquid chromatography 515(1990)527

Glimepiride

Simultaneous determination of the sulphonylurea glimepiride and its metabolites in human serum and urine by high-performance liquid chromatography after pre-column derivatization 526(1990)497

 γ -Globulin

Comparative study of reaction kinetics in membrane and agarose bead affinity systems 519(1990)53

Glucagon

High-performance liquid chromatography of rat and mouse islet polypeptides: potential risk of oxidation of methionine residues during sample preparation 530(1990)29

Alternative mobile phases for the reversed-phase high-performance liquid chromatography of peptides and proteins 537(1991)181

Reversed-phase high-performance liquid chromatographic characterization of acetic acid extracts of the normal and the diabetic human pancreas 537(1991)201

Use of polymeric reversed-phase columns for the characterization of polypeptides extracted from human pancreata. I. Effect of the mobile phase 542(1991)65

Use of polymeric reversed-phase columns for the characterization of polypeptides extracted from human pancreata. II. Effect of the stationary phase 542(1991)83

 β -1,4-Glucanase

Separation of the cellulolytic and xylanolytic enzymes of *Clostridium stercorarium* 521(1990)301

 β -1,3-Glucans

High-performance gel permeation chromatography of water-soluble β -1,3-glucans 509(1990)213

D-Glucitol

Gas-liquid chromatographic assay of the components of electrochemically reduced glucose solutions. Impurities in sorbitol samples 520(1990)185

Glucosylase

High-performance liquid chromatography for the assessment of glucosylase, immobilized on metallic membranes 536(1991)107

Glucocorticoid receptor

One-step 10⁴-fold purification of transformed glucocorticoid receptor. Method for purifying receptors associated with *M_r* ca. 90 000 heat-shock protein 508(1990)97

Gluconic acid

Monitoring and purification of gluconic and galactonic acids produced during fermentation of whey hydrolysate by *Gluconobacter oxydans* 507(1990)321

4-O-(β -D-Glucopyranosyl-6-sulphate)gallic acid

Analytical and preparative high-performance liquid chromatographic systems for the separation of an anomeric mixture of 4-O-(D-glucopyranosyl)gallic acid 518(1990)254

Glucose

Selective post-column liquid chromatographic determination of sugars in spent sulphite liquor with two enzymatic electrochemical detectors in parallel 506(1990)423

Modification of silica with glucose for the separation of proteins by high-performance liquid chromatography 508(1990)289

Application of high-performance liquid chromatography in establishing an accurate index of blood glucose control 515(1990)531

Gas-liquid chromatographic assay of the components of electrochemically reduced glucose solutions. Impurities in sorbitol samples 520(1990)185

Simultaneous determination of organic acids and sugars in apples by gas-liquid chromatography 520(1990)201

Analysis of Palatinit[®] (isomalt) and its monomers in rat intestinal samples by high-performance liquid chromatography with ultraviolet detection 527(1990)238

Glucose oxidase

Purification of the glycoprotein glucose oxidase from *Penicillium amagasakiense* by high-performance liquid chromatography 521(1990)245

Glucose-6-phosphate dehydrogenase

Determination of biopolymer (protein) molecular weights by gradient elution, reversed-phase high-performance liquid chromatography with low-angle laser light scattering detection 502(1990)21

Chromatographic purification of glucose-6-phosphate dehydrogenase and lactate dehydrogenase from *Leuconostoc mesenteroides* 503(1990)197

Screening method for large numbers of dye-adsorbents for enzyme purification 510(1990)155

Combination of polymer-bound charged groups and affinity ligands for extraction of enzymes by partitioning in aqueous two-phase systems 523(1990)119

Glucose telomers

Applications of preparative high-performance liquid chromatography in oleochemical research 536(1991)75

Glucose transporter

Binding of sodium dodecyl sulphate to an integral membrane protein and to a water-soluble enzyme. Determination by molecular-sieve chromatography with flow scintillation detection 512(1990)3

Glucose utilization inhibitor

Isolation of an additional inhibitor of glucose utilization in renal insufficiency: pseudouridine 528(1990)178

 β -D-Glucosidase

Separation of the cellulolytic and xylanolytic enzymes of *Clostridium stercorarium* 521(1990)301

Glucosides

Analytical and preparative high-performance liquid chromatographic systems for the separation of an anomeric mixture of 4-O-(D-glucopyranosyl)gallic acid 518(1990)254

Chromatographic separation and partial identification of glycosidically bound volatile components of fruit 522(1990)255

Chemical characteristics of herbivore defenses in *Betula pendula* winter-dormant young stems 547(1991)367

Glucosinolates

Rapid gas chromatographic determination of volatile degradation products of glucosinolates in rapeseed oil 502(1990)167

Glucosylceramide

Analytical and preparative separation of glucosylceramide and galactosylceramide by borate-impregnated silica gel chromatography 513(1990)379

Glucuronides

Direct determination of the antihypertensive agent Cromakalim and its major metabolites in human urine by high-performance liquid chromatography 515(1990)597

Glutamic acid

High-performance liquid chromatographic determination of selected amino acids in rat brain by precolumn derivatization with phenylisothiocyanate 503(1990)177

Isotachophoretic separation of organic acids in biological fluids 516(1990)251

Glutamine

High-performance liquid chromatographic determination of selected amino acids in rat brain by precolumn derivatization with phenylisothiocyanate 503(1990)177

Rapid high-performance liquid chromatographic determination of γ -aminobutyric acid and some other amino acids: application to rat brain 532(1990)438

γ -Glutamylcysteine synthetase

Assay of γ -glutamylcysteine synthetase and glutathione synthetase in erythrocytes by high-performance liquid chromatography with fluorimetric detection 530(1990)122

γ -L-Glutamyl-L-dihydroxyphenylalanine

Method for the determination of γ -L-glutamyl-L-dihydroxyphenylalanine and its major metabolites L-dihydroxyphenylalanine, dopamine and 3,4-dihydroxyphenylacetic acid by high-performance liquid chromatography with electrochemical detection 528(1990)43

Glutarate

Computer-assisted choice of electrolyte systems and spacing constituents for two-dimensional capillary isotachopheresis 509(1990)287

Glutathione

Application of high-performance thin-layer chromatography-fluorescence densitometry to the simultaneous determination of reduced and oxidized glutathione 502(1990)230

Analysis of decomposition products of alkyl nitronic acids by reversed-phase high-performance liquid chromatography 505(1990)402

High-performance liquid chromatographic determination of aliphatic thiols with aroylacrylic acids as fluorogenic precolumn derivatization reagents 507(1990)451

High-performance liquid chromatography of thiols with differential pulse polarographic detection of the catalytic hydrogen evolution current 515(1990)257

High-performance liquid chromatography of sulfur-containing amino acids and related compounds with amperometric detection at a modified electrode 543(1991)226

Glutathione synthetase

Assay of γ -glutamylcysteine synthetase and glutathione synthetase in erythrocytes by high-performance liquid chromatography with fluorimetric detection 530(1990)122

Glutathione transferases

Selective elution of soluble rat liver glutathione transferases from a glutathione-Sepharose affinity column 530(1990)263

Glutethimide

Chromatographic liquid-liquid ternary phase system with permethylated β -cyclodextrin as chiral additive 547(1991)59

Glyceraldehyde 3-phosphate dehydrogenase

Investigation of liquid phase cooperative binding interactions on the capacity of insoluble affinity adsorbents 539(1991)245

Glycerides

Application of supercritical fluid chromatography and supercritical fluid extraction to the measurement of hydroperoxides in foods 515(1990)555

Glycerol

Applications of preparative high-performance liquid chromatography in oleochemical research 536(1991)75

Determination of glycerol in foods by high-performance liquid chromatography with fluorescence detection 541(1991)265

Glycerol dehydrogenase

Screening method for large numbers of dye-adsorbents for enzyme purification 510(1990)155

Glycerol enol ethers

Simple method for the analysis of glycerol enol ethers derived from plasmalogens in complex lipid mixtures and subsequent determination of the aldehydic components by gas chromatography-mass spectrometry 526(1990)303

Glycerolipids

Thin-layer and high-performance liquid chromatographic separation of glycerolipid subclasses as benzoates. Derivatives of ether and ester analogues of phosphatidylcholine, phosphatidylethanolamine and platelet activating factor 508(1990)382

Glyceryl dinitrates

Simultaneous determination of glyceryl trinitrate and its two dinitrate metabolites in plasma and tissues by capillary gas chromatography 534(1990)196

Glyceryl trinitrate

Simultaneous determination of glyceryl trinitrate and its two dinitrate metabolites in plasma and tissues by capillary gas chromatography 534(1990)196

Glycidyl methacrylate

Phase transition chromatography of polyesters on macroporous glycidyl methacrylate-ethylene dimethacrylate copolymers 509(1990)233

Glycine

High-performance liquid chromatographic determination of selected amino acids in rat brain by precolumn derivatization with phenylisothiocyanate 503(1990)177

Free-solution reactor for post-column fluorescence detection in capillary zone electrophoresis 540(1991)343

Glycoalkaloids

High-performance liquid chromatographic determination of glycoalkaloids in potato products 508(1990)141

Glyco-conjugates

Hydrazido-derivatized supports in affinity chromatography (Review) 510(1990)13

Glycol ethers

Application of multidimensional gas chromatography-mass spectrometry to the determination of glycol ethers in air 522(1990)303

Glycolic acid

Improved high-performance liquid chromatographic determination of urinary glycolic acid 532(1990)130

Glycolipids

Analytical and preparative separation of glucosylceramide and galactosylceramide by borate-impregnated silica gel chromatography 513(1990)379

Thin-layer chromatographic analysis of myelin lipids, their differential O-deacylation by primary alkylamines and their selective staining by thionine. A limited phylogenetic study 525(1990)339

Improved separation of lysoglycolipids from solvolysates by reversed-phase high-performance liquid chromatography 549(1991)133

N-Glycolylneuraminic acid

Determination of N-acetyl- and N-glycolylneuraminic acids in glycoconjugates by reversed-phase high-performance liquid chromatography with ultraviolet detection 503(1990)421

Glycopeptides

Sensitive blotting assay for the detection of glycopeptides in peptide maps 510(1990)225

Rapid analysis of membrane glycopeptides by gel permeation high-performance liquid chromatography 528(1990)65

Interfacing microbore and capillary liquid chromatography to continuous-flow fast atom bombardment mass spectrometry for the analysis of glycopeptides 529(1990)265

Capillary zone electrophoresis of α_1 -acid glycoprotein fragments from trypsin and endoglycosidase digestions 536(1991)31

Glycoprotein hormones

Separation of human glycoprotein hormones and their subunits by reversed-phase liquid chromatography 529(1990)33

Glycoproteins

Purification and analysis of infectious virions and native non-structural antigens from cells infected with tick-borne encephalitis virus 502(1990)59

Hydrazido-derivatized supports in affinity chromatography (Review) 510(1990)13

Oligosaccharide mapping of therapeutic glycoproteins by high-pH anion-exchange high-performance liquid chromatography 512(1990)149

Immobilized metal ion affinity chromatography for the purification of *Fel d 1*, a cat major allergen, from a house-dust extract 512(1990)177

High-performance metal chelate interaction chromatography of proteins with silica-bound ethylenediamine-N,N'-diacetic acid 512(1990)237

Peptide mapping of HIV polypeptides expressed in *Escherichia coli*. Quality control of different batches and identification of tryptic fragments

containing residues of aromatic amino acids or cysteine 512(1990)325

Isolation and purity determination of a glycoprotein elicitor from wheat stem rust by medium-pressure liquid chromatography 521(1990)187

Purification of the membrane-form variant surface glycoprotein of *Trypanosoma brucei* 521(1990)239

Purification of the glycoprotein glucose oxidase from *Penicillium amagasakiense* by high-performance liquid chromatography 521(1990)245

Analysis of N- and O-glycosidically bound sialooligosaccharides in glycoproteins by high-performance liquid chromatography with pulsed amperometric detection 523(1990)189

Dihydrotestosterone binding capacity of androgen-binding protein in tissue extract using high-performance size exclusion chromatography 526(1990)186

Purification of myelin-associated glycoprotein from calf brain using high-performance liquid chromatography 526(1990)535

Purification of proteins on an epoxy-activated support by high-performance affinity chromatography 536(1991)95

Immobilization of dermatan sulphate on a silica matrix and its possible use as an affinity chromatography support for heparin cofactor II purification 539(1991)289

High-performance anion-exchange chromatographic study of desialylated human α_1 -acid glycoprotein variants. Development of a fractionation method for the protein slow variants 539(1991)405

Separation of carbohydrate-mediated microheterogeneity of recombinant human erythropoietin by free solution capillary electrophoresis. Effects of pH, buffer type and organic additives 542(1991)459

Glycosylation of extracellular superoxide dismutase studied by high-performance liquid chromatography and mass spectrometry 548(1991)293

Glycosaminoglycans

Isolation and characterization of proteoglycans from different tissues 521(1990)311

Pulsed amperometric detection of carbohydrates in lysosomal storage disease fibroblasts: a new screening technique for carbohydrate storage diseases 533(1990)11

Glycosides

Lipophilic character of cardiac glycosides. R_M values as lipophilicity parameters 504(1990)163

Chromatography of cardiac glycosides 531(1990)215

Gas chromatographic-mass spectrometric separation and characterization of methyl trimethylsilyl monosaccharides obtained from naturally occurring glycosides and carbohydrates 547(1991)299

Glycosides, iridoid

Identification of a new minor iridoid glycoside in *Symplocos glauca* by thermospray liquid chromatography-mass spectrometry 515(1990)503

Glycosyl ceramides

Preparative separation of sphingolipids and of individual molecular species by high-performance liquid chromatography and their identification by gas chromatography-mass spectrometry 509(1990)333

Glycuronic acids

Determination of saccharides in biological materials by high-performance anion-exchange chromatography with pulsed amperometric detection 546(1991)297

N-Glycyl-1,2-ethylenediamine

Identification of ferrioxamines by high-performance liquid chromatography and diode-array detection 513(1990)255

Glycyrrhetic acid

Determination of glycyrrhetic acid in human serum by high-performance liquid chromatography with ultraviolet detection 530(1990)447

Glycyrrhetic acid

Determination of three active principles in licorice extract by reversed-phase high-performance liquid chromatography 542(1991)521

Separation of 18 α - and 18 β -glycyrrhetic acid by high-performance thin-layer chromatographic densitometry 543(1991)479

Glycyrrhizic acid

Determination of three active principles in licorice extract by reversed-phase high-performance liquid chromatography 542(1991)521

Glycyrrhizin

Determination of three active principles in licorice extract by reversed-phase high-performance liquid chromatography 542(1991)521

Glyphosate

High-performance liquid chromatographic determination of the herbicide glyphosate and its metabolite (aminomethyl)phosphonic acid and their extraction from cyanobacteria 502(1990)201

Use of field-flow fractionation to study pollutant-colloid interactions 517(1990)435

Determination of glyphosate and its major metabolite aminomethylphosphonic acid by high-performance liquid chromatography after derivatization with *p*-toluenesulphonyl chloride 540(1991)411

Gold

Cryogenic-focusing, ohmically heated on-column trap for capillary gas chromatography 517(1990)67

Gonadotropin

High-performance liquid chromatographic method for the comparison of tanning capacity of tannic acid batches used in the manufacture of pregnancy testing kits 513(1990)263

[D-Phe⁶]-Gonadotropin-releasing hormone

Breakthrough curves of insulin, [D-Phe⁶]-Gonadotropin-releasing hormone and phenylalanine methyl ester on copolymers of alkylacrylate and divinylbenzene 537(1991)167

Gonadotropin-releasing hormone receptors

Purification of gonadotropin releasing hormone receptors using the avidin-biotin technique 510(1990)233

GR50360

Determination of fluparoxan (GR50360) in plasma by gas chromatography 527(1990)436

GR 50360 A

Pharmaceutical analysis by capillary zone electrophoresis and micellar electrokinetic capillary chromatography 538(1991)506

Grisorixin

Separation and determination of polyether carboxylic antibiotics from *Streptomyces hygroscopicus* NRRL B 1865 by thin-layer chromatography with flame ionization detection 547(1991)411

Grob test mixture

High-precision sampling of sub-nanogram, low-parts-per-billion solutes from liquids using the dynamic solvent effect 511(1990)271

Growth factors

High-performance affinity chromatography of basic fibroblast growth factor on polystyrene sulphonate resins modified with serine 510(1990)141

Isolation and characterization of two different molecular forms of basic fibroblast growth factor extracted from human placental tissue 539(1991)393

Affinity chromatography of fibroblast growth factors on coated silica supports grafted with heparin 539(1991)417

Separation and microanalysis of growth factors by Phast system gel electrophoresis and by DNA synthesis in cell culture 543(1991)463

Growth hormone

High-performance liquid chromatography of amino acids, peptides and proteins. XCIX. Comparative study of the equilibrium refolding of bovine, porcine and human growth hormone by size-exclusion chromatography 512(1990)57

Isolation and characterization of recombinant eel growth hormone expressed in *Escherichia coli* 515(1990)483

Method optimization in capillary zone electrophoretic analysis of hGH tryptic digest fragments 516(1990)99

Use of high-performance capillary electrophoresis to monitor charge heterogeneity in recombinant-DNA derived proteins 516(1990)115

Alternative mobile phases for the reversed-phase high-performance liquid chromatography of peptides and proteins 537(1991)181

Determination of pituitary and recombinant human growth hormone molecular weights by modern high-performance liquid chromatography with low angle laser light scattering detection 539(1991)91

Separation of antibody-antigen complexes by capillary zone electrophoresis, isoelectric focusing and high-performance size-exclusion chromatography 539(1991)177

Characterization of recombinant eel growth hormone 547(1991)131

Guaiacol

Behaviour of phenols under supercritical fluid chromatographic conditions in relation to the pyrolysis of lignocellulosic materials 540(1991)225

Guaianolides

Dünnschichtchromatographie von Guajanoliden des Unterstammes Centaureinae 505(1990)417

Guanidines

Applications of preparative high-performance liquid chromatography in oleochemical research 536(1991)75

Guanidino compounds

High-performance liquid chromatographic determination of guanidino compounds by automated pre-column fluorescence derivatization 506(1990)279

Determination of guanidino compounds by anion-exchange chromatography and amperometric detection 526(1990)355

Guanine

Determination of purine nucleosides and their bases by high-performance liquid chromatography using co-immobilized enzyme reactors 528(1990)91

Guanosine

Determination of purine nucleosides and their bases by high-performance liquid chromatography using co-immobilized enzyme reactors 528(1990)91

High-performance liquid chromatography of oligoguanylates at high pH 538(1991)474

Guanosine 5'-monophosphate

High-performance liquid chromatography of oligoguanylates at high pH 538(1991)474

Gypsum

Investigation of phase transitions in the $\text{CaSO}_4(\text{s})\text{-H}_2\text{O}(\text{g})$ system by chromatographic methods 520(1990)157

H

H-acid

Separation and identification of impurities in the dye intermediate 8-amino-1-naphthol-3,6-disulphonic acid (H-acid) by high-performance liquid chromatography 514(1990)330

Haemagglutinin

Simultaneous determination of *Bordetella pertussis* toxin and filamentous haemagglutinin concentrations by hydroxyapatite high-performance liquid chromatography 512(1990)227

Haematite

Potential-barrier field-flow fractionation, a versatile new separation method 517(1990)345

Haementin

Purification and characterization of hementin, a fibrinolytic protease from the leech *Haementeria ghilianii* 502(1990)359

Haemoglobin

High-performance liquid chromatographic separation and partial characterization of the α - and β -chains of Alaskan sockeye salmon hemoglobin 512(1990)291

Application of high-performance liquid chromatography in establishing an accurate index of blood glucose control 515(1990)531

Protein separation with aqueous-aqueous polymer systems by two types of counter-current chromatographs 550(1991)695

Haemoglobin F

Efficient method of haemoglobin F enrichment in adult haemolysate for determination of the γ -chain isoforms by high-performance liquid chromatography 533(1990)63

Haemoglobin, glycosylated

Centrifugal affinity chromatography
510(1990)205

Haemoglobin, pyridoxylated

High-performance liquid chromatographic
evaluation of pyridoxyl 5'-phosphate hemoglobin
derivatives produced by different reduction
procedures 532(1990)55

Hafnium (IV)

Thin-layer chromatographic behaviour and
separation of zirconium(IV) and hafnium(IV) on
silica gel in mineral acid-hydrogen peroxide
media 539(1991)169

Halides

Use of cyclodextrins in the isotachophoretic
determination of various inorganic anions
518(1990)189

Haloalkanes

Analysis of haloalkanes on wide-bore capillary
columns of different polarity connected in series
522(1990)329

Halobenzenes

Liquid chromatography of liquid substances
characterized by limited solubility in the eluent
509(1990)157

Halofantrine

Fluorescence detection of the enantiomers of
halofantrine at picomole levels using chiral
high-performance liquid chromatography
519(1990)387

Comparison of a new ovomucoid and a second-
generation α_1 -acid glycoprotein-based chiral
column for the direct high-performance liquid
chromatography resolution of drug enantiomers
545(1991)43

Halofuginone

Determination of halofuginone in feedstuffs by
the combination of capillary isotachopheresis and
capillary zone electrophoresis in a column-
switching system 545(1991)307

Halogenated alkylamines

Simple procedure involving derivatisation and
thin-layer chromatography for the estimation of
trace levels of halogenated alkylamines and their
hydrolysis products in drug substances and
formulations 543(1991)211

Halogenated benzenes

Chemically modified polymeric resins for high-
performance liquid chromatography 522(1990)95

Halogenated compounds

Application of gas chromatography with electron-
capture detection to trace analysis of halogenated
compounds 509(1990)115

Haloperidol

High-performance liquid chromatographic
procedure for the determination of clozapine,
haloperidol, droperidol and several
benzodiazepines in plasma 525(1990)218

Simultaneous determination of haloperidol and
reduced haloperidol by gas chromatography using
a megabore column with electron-capture
detection: application to microsomal oxidation of
reduced haloperidol 529(1990)182

High-performance liquid chromatography of
droperidol in whole blood 532(1990)181

High-performance liquid chromatographic
analysis of haloperidol and hydroxyhaloperidol in
plasma after solid-phase extraction 532(1990)193

Halothane

High-performance liquid chromatographic
method for the direct determination of the
volatile anaesthetics halothane, isoflurane and
enflurane in water and in physiological buffer
solutions 518(1990)250

Analytical isotachopheresis in biological
monitoring of exposure to industrial chemicals
(Review) 545(1991)369

Haloxazolam

Collection of analytical data for benzodiazepines
and benzophenones. Appendix 538(1991)277

Haptens

Purification of anti-paraquat monoclonal
antibodies by affinity chromatography on
immobilised hapten 516(1990)433

Large-scale purification of haptenated
oligonucleotides using high-performance liquid
chromatography 536(1991)85

Haptoglobin

Rapid high-performance liquid chromatographic
protein quantitation of purified recombinant
Factor VIII containing interfering substances
512(1990)213

Apparatus for coupled high-performance liquid
chromatography and capillary electrophoresis in
the analysis of complex protein mixtures
515(1990)659

Harman

Determination of β -carbolines in foodstuffs by high-performance liquid chromatography and high-performance liquid chromatography-mass spectrometry 538(1991)331

Heat shock protein

One-step 10^4 -fold purification of transformed glucocorticoid receptor. Method for purifying receptors associated with M_r ca. 90 000 heat-shock protein 508(1990)97

Helium head pressure carbon dioxide

Comparison of helium head pressure carbon dioxide and pure carbon dioxide as mobile phases in supercritical fluid chromatography 514(1990)309

Heparin

Double-coated silica supports for high-performance affinity chromatography of proteins 510(1990)71

Chromatographic separation of four Ser/Thr-protein phosphatases from solubilized ciliary membranes of *Paramecium tetraurelia* by heparin-Sepharose 521(1990)179

Heparin cofactor II

Immobilization of dermatan sulphate on a silica matrix and its possible use as an affinity chromatography support for heparin cofactor II purification 539(1991)289

Purification of heparin cofactor II from human plasma 539(1991)493

Hepatitis B-virus surface antigens

High-performance size-exclusion chromatography and molar mass measurement by low-angle laser light scattering of recombinant yeast-derived human hepatitis B virus surface antigen vaccine particles 507(1990)25

Heptadecyl alcohol

Long-chain fatty alcohol quantitation in subfemtomole amounts by gas chromatography-negative ion chemical ionization mass spectrometry. Application to long-chain acyl coenzyme A measurement 509(1990)325

Heptafluorobutyrylimidazole

Gas chromatographic determination of 2-ethylhexanol and 2-ethylhexanoic acid as derivatives suitable for electron-capture and nitrogen-phosphorus detection after single reaction with heptafluorobutyrylimidazole 509(1990)383

Heptanediamine

High-performance liquid chromatographic method for the determination of dansyl-polyamines 511(1990)177

Herbicides

see Pesticides

Herbicolin A

Rapid identification and determination of herbicolin A and B by high-performance liquid chromatography 502(1990)437

Herbicolin B

Rapid identification and determination of herbicolin A and B by high-performance liquid chromatography 502(1990)437

Herniarin

Automated multiple development high-performance thin-layer chromatographic analysis of natural phenolic compounds 511(1990)396

Laser-light-scattering detection for high-speed counter-current chromatography 538(1991)87

Heroin

Determination of heroin and some common adulterants by capillary gas chromatography 538(1991)269

Hesperetin

Laser-light-scattering detection for high-speed counter-current chromatography 538(1991)87

Heteroaromatic compounds

Correlation between chemical structure of non-congeneric solutes and their retention on polybutadiene-coated alumina 506(1990)3

S-Heterocyclic compounds

Quantitative structure-type analysis of hetero compounds-hydrocarbon mixtures. Analysis of S-heterocyclics and ketones from brown coal tars 509(1990)27

Hexadecane

Use of radio-gas chromatography and tritium label to optimize derivatization procedures 530(1990)1

Hexadecylphosphocholine

Quantitation of hexadecylphosphocholine by high-performance thin-layer chromatography with densitometry 525(1990)85

1,6-Hexamethylenediamine

Chromatographic determination of amines in biological fluids with special reference to the

biological monitoring of isocyanates and amines. IV. Determination of 1,6-hexamethylenediamine in human urine using capillary gas chromatography and selective ion monitoring 516(1990)405

Hexanal

Determination of volatile aliphatic aldehydes in the headspace of heated food oils by derivatization with 2-aminoethanethiol 547(1991)291

Hexazinone

Simplified high-performance liquid chromatography method for the simultaneous analysis of tebuthiuron and hexazinone 536(1991)223

Hexestrol

Analysis of diethylstilbestrol, dienestrol and hexestrol in biological samples by immunoaffinity extraction and gas chromatography-negative-ion chemical ionization mass spectrometry 527(1990)267

Hexobarbital

Displacement chromatography on cyclodextrin-silicas. III. Enantiomer separations 506(1990)481

Coupled column chromatography in chiral separations. I. Enantiomeric separation on swollen microcrystalline cellulose triacetate columns after a preseparation on a non-chiral alkylsilica column 513(1990)195

High-mobility group proteins

Efficient large-scale purification of non-histone chromosomal proteins HMG1 and HMG2 by using Polybuffer-exchanger PBE94 530(1990)39

Hippuric acid

High-performance liquid chromatographic analysis of hippuric acid in human blood plasma 532(1990)45

Hirudins

Isolation and purification of novel hirudins from the leech *Hirudinaria manillensis* by high-performance liquid chromatography 530(1990)273

Histamine

Simultaneous determination of biogenic amines by reversed-phase high-performance liquid chromatography 508(1990)225

Histamine H₁-receptor blockers

Chromatography of histamine H₁- and H₂-receptor blockers in biosamples 531(1990)369

Histamine H₂-receptor blockers

Chromatography of histamine H₁- and H₂-receptor blockers in biosamples 531(1990)369

Histidine

Isotachopheresis with electroosmotic flow: open versus closed systems 537(1991)429

Histones

Purification of histone H1 polypeptides by high-performance cation-exchange chromatography 502(1990)47

Reactivity and adduct formation of a polyaromatic hydrocarbon, 7-bromomethylbenz[*a*]anthracene, with chromatin histone proteins 528(1990)25

Hitec E580

Direct determination of corrosion inhibitor in aviation fuel by a column-switching technique using gel-permeation chromatography 508(1990)259

Holotoxin

Simultaneous determination of *Bordetella pertussis* toxin and filamentous haemagglutinin concentrations by hydroxyapatite high-performance liquid chromatography 512(1990)227

Homatropine

Chiral separations of atropine and homatropine on an α_1 -acid glycoprotein-bonded stationary phase 506(1990)579

Homocitrulline

Determination of citrulline and homocitrulline by high-performance liquid chromatography with post-column derivatization 532(1990)37

Homocysteine

High-performance liquid chromatographic determination of aliphatic thiols with acryloyl acrylic acids as fluorogenic precolumn derivatization reagents 507(1990)451

Homohopanes

Tandem mass spectrometry — an additional dimension of chromatography for the determination of biomarkers in fossil fuels (Review) 550(1991)193

Homoserine dehydrogenase

Use of dye pseudo-affinity chromatography in the purification of homoserine dehydrogenase 539(1991)507

Homovanillic acid

Determination of plasma homovanillic acid by column liquid chromatography with electrochemical detection 525(1990)419

Simultaneous determination of vanillylmandelic acid, homovanillic acid and creatinine in urine by reversed-phase ion-pair chromatography 530(1990)418

Hopane

Tandem mass spectrometry—an additional dimension of chromatography for the determination of biomarkers in fossil fuels (Review) 550(1991)193

Hopantenic acid

Simultaneous determination of pantothenic acid and hopantenic acid in biological samples and natural products by gas chromatography-mass fragmentography 525(1990)255

Hormone receptors

Purification of gonadotropin releasing hormone receptors using the avidin-biotin technique 510(1990)233

Hormones

Characterization of chemically synthesized human relaxin by high-performance liquid chromatography 508(1990)81

High-performance liquid chromatography of amino acids, peptides and proteins. XCIX. Comparative study of the equilibrium refolding of bovine, porcine and human growth hormone by size-exclusion chromatography 512(1990)57

High-performance liquid chromatographic method for the comparison of tanning capacity of tannic acid batches used in the manufacture of pregnancy testing kits 513(1990)263

Electrochemical detection for high-performance liquid chromatography using a Kel-F wax-graphite electrode 514(1990)171

Efficient determination of phytoecdysteroids from *Ajuga* species and *Polypodium vulgare* by high-performance liquid chromatography 514(1990)199

Method optimization in capillary zone electrophoretic analysis of hGH tryptic digest fragments 516(1990)99

Immobilized metal ion affinity chromatography. Effect of solute structure, ligand density and salt concentration on the retention of peptides 516(1990)333

Separation of human glycoprotein hormones and their subunits by reversed-phase liquid chromatography 529(1990)33

Automated phenylthiocarbonyl amino acid analysis of carboxypeptidase/aminopeptidase digests and acid hydrolysates 537(1991)153

Rapid isolation of a neurohormone from mosquito heads by high-performance liquid chromatography 542(1991)508

Ovine luteinizing hormone. V. Significance of flow-through peaks observed during chromatofocusing as revealed by various methods of sample preparation and application 549(1991)141

Ovine luteinizing hormone. VI. Analysis of the misclassification errors in the separation of intrapituitary isohormones by chromatofocusing 549(1991)153

Hostanox SE-10

Characterization of polymer additives by supercritical fluid chromatography and by liquid chromatography 505(1990)283

HT-2 toxin

Heptafluorobutyrylation of trichothecenes using a solid-phase catalyst 511(1990)384

Use of 1-*p*-(2,3-dihydroxypropoxy)phenyl]-1-alkanones as retention index standards in the identification of trichothecenes by liquid chromatography-thermospray and dynamic fast atom bombardment mass spectrometry 543(1991)39

Human chorionic gonadotropin

High-performance liquid chromatographic method for the comparison of tanning capacity of tannic acid batches used in the manufacture of pregnancy testing kits 513(1990)263

Human serum albumin

see Albumin

Humic acids

High-performance liquid chromatographic determination of humic acid in sodium aluminate solution 502(1990)443

Characterization of humified compounds by extraction and fractionation on solid polyvinylpyrrolidone 509(1990)141

Determination of molecular size distributions of humic acids by high-performance size-exclusion chromatography 541(1991)419

Humic substances

Characterization of humic substances by capillary isotachopheresis 545(1991)461

Humulones

Applications of high-speed counter-current chromatography for the separation and isolation of natural products 538(1991)193

Hyaluronic acid

Analysis of hyaluronic acid in synovial fluid by reversed-phase liquid chromatography 526(1990)530

Hydantoins

Influence of uncharged mobile phase additives on retention and enantioselectivity of chiral drugs using an α_1 -acid glycoprotein column 519(1990)271

Hydralazine

Determination of hydrazine in hydralazine by capillary gas chromatography with nitrogen-selective detection after benzaldehyde derivatization 511(1990)303

Hydrazine

Determination of hydrazine in hydralazine by capillary gas chromatography with nitrogen-selective detection after benzaldehyde derivatization 511(1990)303

Hydrazine derivatives

High-performance liquid chromatography on silica dynamically modified with hydrazinium derivatives 521(1990)19

Hydrazine hydrochloride

Determination of hydrazine in hydralazine by capillary gas chromatography with nitrogen-selective detection after benzaldehyde derivatization 511(1990)303

Hydrocarbons

Adsorption effect on the retention volume of hydrocarbons and dialkyl ethers in gas-liquid chromatography using a polar stationary phase and silica gel support 503(1990)25

Determination of individual hydrocarbons in automobile exhaust from gasoline-, methanol- and variable-fueled vehicles 503(1990)51

High-precision sampling of trace gas-borne volatiles by the dynamic solvent effect with a comparative review of alternative techniques 504(1990)21

Comparison of supercritical carbon dioxide and supercritical propane as mobile phases in supercritical fluid chromatography 505(1990)119

Fractionation of lemon-peel oil by semi-preparative supercritical fluid chromatography 505(1990)237

Quantitative structure-type analysis of hetero compounds-hydrocarbon mixtures. Analysis of S-heterocyclics and ketones from brown coal tars 509(1990)27

Gas chromatographic analysis of light hydrocarbons using aluminium oxide micro-packed columns 509(1990)59

Flame infrared emission-flame ionization detector for gas chromatography 513(1990)21

Gas chromatography of the atmosphere of Titan. II. Analysis of low-molecular-weight hydrocarbons and nitriles with a potassium chloride-deactivated alumina PLOT capillary column 514(1990)65

Comparison of cuticular hydrocarbon profiles of fire ants *Solenopsis richteri* from the same colony, using capillary column gas chromatography with pattern recognition 517(1990)95

Use of chromatographic models for computerized optimization of coupling-point pressure in dual-column gas chromatography 517(1990)161

Determination of gas chromatographic plate heights for hydrocarbon adsorption by superactivated carbon AX21 518(1990)53

Retention and heats of adsorption of *n*-alkanes, aromatic hydrocarbons, aliphatic alcohols and ketones on macroporous silicas 520(1990)47

Radiofrequency detector for gas chromatography 520(1990)97

Chromatographic study of the interactions of hydrocarbons with cyclodextrins and their derivatives in the gas–solid system 520(1990)105

Peculiarities of aromatic hydrocarbon retention in normal-phase high-performance liquid chromatography with eluents containing halide derivatives 520(1990)315

Aromatic ring-type analysis of complex hydrocarbon mixtures by high-performance liquid chromatography with photodiode-array detection and curve resolution 520(1990)383

Gas chromatographic determination of traces of light hydrocarbons and sulphur compounds in gases at low pressure by the simultaneous use of flame ionization and flame photometric detectors 521(1990)99

Separation of phenols and aromatic hydrocarbons from biomass tar using aminopropylsilane normal-phase liquid chromatography 538(1991)303

Application of a hydrogen storage alloy to the determination of trace impurities in high-purity hydrogen by gas chromatography. Group analysis of C₁, C₂ and C₃ hydrocarbons 541(1991)75

Effect of urea addition in micellar electrokinetic chromatography 545(1991)359

Gas phase retention volume behavior of organic compounds on Carbotrap graphitized carbon 547(1991)488

Selectivity of carbon packing materials in comparison with octadecylsilyl- and pyrenylethylsilylsilica gels in reversed-phase liquid chromatography 549(1991)29

Gas chromatographic properties of organoammonium exchanged montmorillonites. I. Tetraalkylammonium cations 549(1991)273

Chemical class separation of coal liquids by high-performance liquid chromatography on a semi-preparative, phosphoric acid-modified amino-bonded-phase column 550(1991)609

Hydrocarbons, chlorinated

Simple device for the determination of volatile chlorinated hydrocarbons in water by gas chromatography 509(1990)111

Hydrocarbons, halogenated

Determination of biogenic and anthropogenic volatile halocarbons in sea water by liquid–liquid extraction and capillary gas chromatography 513(1990)39

Gas chromatographic identification of complex mixtures of halomethanes and haloethanes by using the correlation between their retention and vapour pressure 537(1991)305

Hydrochlorothiazide

Sensitive liquid chromatographic method for the determination of hydrochlorothiazide in human plasma 532(1990)168

Hydrocortisone

Determination by high-performance liquid chromatography of the binding properties of charged β -cyclodextrin derivatives with drugs 503(1990)453

Hydrogen

Value of breath hydrogen test in detection of hypolactasia in patients with chronic diarrhoea 530(1990)102

Hydrogen chloride

Determination of impurities in thionyl chloride by gas chromatography 520(1990)163

Hydrogen cyanide

Chromatographic analysis of chemical warfare agents (Review) 503(1990)293

Hydrogen peroxide

Thin-layer chromatographic behaviour and separation of zirconium(IV) and hafnium(IV) on silica gel in mineral acid–hydrogen peroxide media 539(1991)169

Hydroperoxides

Analysis of thymidine hydroperoxides by post-column reaction high-performance liquid chromatography 504(1990)191

Application of supercritical fluid chromatography and supercritical fluid extraction to the measurement of hydroperoxides in foods 515(1990)555

Hydrophobic compounds

Separation of highly hydrophobic compounds by cyclodextrin-modified micellar electrokinetic chromatography 516(1990)23

Hydroquinone

Separation and quantitation of phenolic compounds in mainstream cigarette smoke by

capillary gas chromatography with mass spectrometry in the selected-ion mode 505(1990)365

α -Hydroxy acids

Quantitative gas chromatographic analysis of mandelic acid enantiomers 504(1990)287

2-Hydroxy-3-aminophenazine

Analyse par chromatographie liquide du diamino-2,3 phénazine et de l'hydroxy-2 amino-3 phénazine dans les carbendazimes techniques et formulés 518(1990)375

10-Hydroxyamitriptyline

Enantiomer analysis of *E*- and *Z*-10-hydroxyamitriptyline in human urine 528(1990)163

4-Hydroxyanisole

Measurement of 4-hydroxyanisole in serum by direct injection high-performance liquid chromatography 534(1990)267

Hydroxyapatite

High-performance liquid chromatographic separation of biomolecules using calcium phosphate supported on macroporous silica microparticles 504(1990)319

Simultaneous determination of *Bordetella pertussis* toxin and filamentous haemagglutinin concentrations by hydroxyapatite high-performance liquid chromatography 512(1990)227

Fundamental study of hydroxyapatite high-performance liquid chromatography. II. Experimental analysis on the basis of the general theory of gradient chromatography 515(1990)91

Fundamental study of hydroxyapatite high-performance liquid chromatography. III. Direct experimental confirmation of the existence of two types of adsorbing surface on the hydroxyapatite crystal 515(1990)125

Binding capacities of hydroxyapatite for globular proteins 515(1990)193

Purification of D₂ dopamine receptor by photoaffinity labelling, high-performance liquid chromatography and preparative sodium dodecyl sulphate polyacrylamide gel electrophoresis 515(1990)375

Separation of membrane protein-sodium dodecyl sulphate complexes by high-performance liquid

chromatography on hydroxyapatite 515(1990)399

High-performance liquid chromatography of proteins on a ceramic hydroxyapatite with volatile buffers 515(1990)521

High-performance liquid chromatography of transfer ribonucleic acids on spherical hydroxyapatite beads. II. Effects of pH and sodium chloride on chromatography 515(1990)563

p-Hydroxybenzaldehyde

Optimization of electrochemical detection in the high-performance liquid chromatography of lignin phenolics from lignocellulosic by-products 507(1990)439

p-Hydroxybenzoic acid

Optimization of electrochemical detection in the high-performance liquid chromatography of lignin phenolics from lignocellulosic by-products 507(1990)439

3-Hydroxybenzo[*a*]pyrene

Analysis of 3-hydroxybenzo[*a*]pyrene by high-performance liquid chromatography using a post-column method 532(1990)155

α -Hydroxybetaxolol

Determination of betaxolol and its metabolites in blood and urine by high-performance liquid chromatography with fluorimetric detection 534(1990)161

D-3-Hydroxybutyrate dehydrogenase

Interactions of the mitochondrial membrane rat liver D-3-hydroxybutyrate dehydrogenase with glass beads during adsorption chromatography. Relationships with the activation of the enzyme by phospholipids 539(1991)279

10-Hydroxycarbazepine

Simple and rapid micro-analytical high-performance liquid chromatographic technique for the assay of oxcarbazepine and its primary active metabolite 10-hydroxycarbazepine 528(1990)473

Hydroxycarboxylic acids

Derivatization and gas chromatographic determination of hydroxycarboxylic acids treated with chloroformates 547(1991)307

Hydroxycholesterol

Determination of a cholesterol oxide mixture by a single-run high-performance liquid

chromatographic analysis using benzylation
547(1991)105

trans-3'-Hydroxycotinine

Nicotine metabolites in the urine of smokers
525(1990)193

Hydroxydiclofenac

High-performance liquid chromatographic method for the determination of diclofenac and its hydroxy metabolites in human plasma and urine 528(1990)487

20-Hydroxyecdysone

Reversed-phase high-performance liquid chromatographic separation of 5 β ,20-dihydroxyecdysone and 20-hydroxyecdysone on a β -cyclodextrin-bonded stationary phase 547(1991)443

Hydroxyeicosatetraenoates

Resolution of enantiomers of 19-hydroxyeicosatetraenoate and 18-hydroxyeicosatetraenoate by chiral phase high-performance liquid chromatography of naphthoyl ester derivatives 526(1990)525

Hydroxyeicosatetraenoic acids

Simultaneous reversed-phase extraction of lipoxygenase and cyclooxygenase metabolites of arachidonic acid in nasal secretions: methodological aspects 532(1990)217

Separation of ¹²⁵I-labelled derivatives of 5-hydroxy-6,8,11,14-eicosatetraenoic acid
543(1991)307

Hydroxyfarrerol

Assay of hydroxyfarrerol in biological fluids
535(1990)255

Hydroxy fatty acids

Separation of hydroxylated polyenoic fatty acid enantiomers on Pirkle-type chiral phase high-performance liquid chromatographic columns
520(1990)391

4'-Hydroxyfenoprofen

Stereoselective analysis of fenoprofen and its metabolites 534(1990)127

2-Hydroxygenistein

Application of gas chromatography-mass spectrometry to the identification of isoflavonoids in lupine root extracts 508(1990)391

Hydroxyhaloperidol

High-performance liquid chromatographic analysis of haloperidol and hydroxyhaloperidol in plasma after solid-phase extraction 532(1990)193

(-)-6(S)-Hydroxy-4(R)-(1-hydroxy-1-methyl-ethyl)-1-cyclohexene-1-ethanol

High-performance liquid chromatographic determination of the mucoregulatory drug CO/1408 in rat plasma and urine 507(1990)227

2-Hydroxyiminomethyl-3-methyl-1-[2-(3-methyl-3-nitrobutyloxymethyl)]imidazolium chloride

Determination of the oximes 2-hydroxyiminomethyl-3-methyl-1-[2-(3-methyl-3-nitrobutyloxymethyl)]imidazolium chloride and 1-[1-(3-butynyloxymethyl)]-2-hydroxyiminomethyl-3-methylimidazolium chloride in plasma by high-performance liquid chromatography
527(1990)361

5-Hydroxyindoleacetic acid

Determination of tryptophan and its metabolites in human plasma and serum by high-performance liquid chromatography with automated sample clean-up system 526(1990)367

Determination of six indolic compounds, including melatonin, in rat pineal using high-performance liquid chromatography with serial fluorimetric-electrochemical detection
528(1990)111

Two-parameter mobile phase optimization for the simultaneous high-performance liquid chromatographic determination of dopamine, serotonin and related compounds in microdissected rat brain nuclei 547(1991)113

α -Hydroxyisobutyric acid

Study of isotachopheretic separation behaviour of metal cations by means of particle-induced X-ray emission. I. Separation of twenty metal cations using an acetic acid buffer system and α -hydroxyisobutyric acid complex-forming system 538(1991)413

Hydroxyketorolac

Simultaneous determination of ketorolac and its hydroxylated metabolite in plasma by high-performance liquid chromatography
534(1990)241

Hydroxyl aromatics

Reversed-phase chromatographic separation of selected hydroxyl aromatics with β -cyclodextrin as a mobile phase additive 514(1990)19

Changes in the enthalpy and entropy of hydroxyl aromatics in reversed-phase liquid chromatography with β -cyclodextrin in the mobile phase 537(1991)61

Hydroxyl radical

High-performance liquid chromatographic detection of hydroxylated benzoic acids as an indirect measure of hydroxyl radical in heart: its possible link with the myocardial reperfusion injury 536(1991)273

Hydroxymandelic acids

Dichlorotetrafluoroacetone as a derivatisation reagent in the analysis of mandelic acids in human urine 527(1990)259

Hydroxymedifoxamine

Measurement of medifoxamine metabolites in urine by high-performance liquid chromatography 528(1990)531

4-Hydroxy-3-methoxyallylbenzene

Sensitive high-performance liquid chromatographic assay for the determination of eugenol in body fluids 525(1990)369

4-Hydroxy-3-methoxymandelic acid

Determination of urinary vanillylmandelic acid by direct injection and coupled-column chromatography with electrochemical detection 527(1990)11

Dichlorotetrafluoroacetone as a derivatisation reagent in the analysis of mandelic acids in human urine 527(1990)259

Simultaneous determination of vanillylmandelic acid, homovanillic acid and creatinine in urine by reversed-phase ion-pair chromatography 530(1990)418

3-Hydroxymethyl-5-aziridinyl-1-methyl-2-(1H-indole-4,7-dione)-prop- β -en- α -ol

Gradient high-performance liquid chromatographic assay for the determination of the novel indoloquinone antitumour agent E09 in biological specimens 532(1990)321

Hydroxymethyldihydropterine pyrophosphokinase

Improved methods for the purification of enzymes of the folate pathway in *Escherichia coli*. I. Chromatographic methods 523(1990)53

3-Hydroxy-3-methylglutaric acid

Positive-ion thermospray liquid chromatography-mass spectrometry: detection of organic acidurias 534(1990)1

3-Hydroxymethylpyridine

Capillary tube isotachophoretic separation of niacin derivatives 521(1990)158

4-Hydroxynonenal

Aldehyde and nucleotide separations by high-performance liquid chromatography. Application to phenylhydrazine-induced damage of erythrocytes and reticulocytes 520(1990)411

Hydroxyoxime

Gas chromatographic analyses of hydroxyoxime extractants of metals and their intermediates. I. Alkylsalicylaldehyde oximes 503(1990)442

Hydroxypentadecadiene

Stereochemical analysis of a leukotriene related hydroxypentadecadiene using a chiral high-performance liquid chromatography column and diode array detection 542(1991)189

(R)-4-[3-[(2-Hydroxy-2-phenethyl)amino]-3-methylbutyl]benzamide monohydrochloride

High-performance liquid chromatographic measurement of (R)-4-[3-[(2-hydroxy-2-phenethyl)amino]-3-methylbutyl]benzamide monohydrochloride (LY195448) and its *p*-hydroxy metabolite in human plasma and urine 527(1990)473

Hydroxyphenprocoumon

Determination of the plasma protein binding of the coumarin anticoagulants phenprocoumon and its metabolites, warfarin and acenocoumarol, by ultrafiltration and high-performance liquid chromatography 529(1990)479

Analysis of phenprocoumon and its hydroxylated and conjugated metabolites in human urine by high-performance liquid chromatography after solid-phase extraction 530(1990)347

Hydroxyphenylacetic acid

Optimization of electrochemical detection in the high-performance liquid chromatography of lignin phenolics from lignocellulosic by-products 507(1990)439

5-(*p*-Hydroxyphenyl)-5-phenylhydantoin

Simultaneous determination of *p*-hydroxylated and dihydrodiol metabolites of phenytoin in urine by high-performance liquid chromatography 535(1990)279

p-Hydroxyphenyl-phenylhydantoin glucuronide

Direct high-performance liquid chromatographic analysis of *p*-hydroxyphenyl-phenylhydantoin glucuronide, the final metabolite of phenytoin, in human serum and urine 526(1990)581

4-Hydroxypropranolol

Simultaneous determination of propranolol and 4-hydroxypropranolol enantiomers after chiral derivatization using reversed-phase high-performance liquid chromatography 527(1990)351

(S)-2-Hydroxypropyl- β -cyclodextrin

(S)-2-Hydroxypropyl- β -cyclodextrin, a new chiral stationary phase for reversed-phase liquid chromatography 513(1990)181

3-Hydroxypyridin-4-ones

Chromatography of 3-hydroxypyridin-4-ones: novel orally active iron chelators 519(1990)171

3 α -Hydroxysteroid dehydrogenase

High-performance liquid chromatography with a 3 α -hydroxysteroid dehydrogenase postcolumn reactor and isoluminol-microperoxidase chemiluminescence detection 515(1990)329

3-Hydroxy-4',5,6,7-tetramethoxyflavone

High-performance liquid chromatography with diode-array ultraviolet detection of methoxylated flavones in *Orthosiphon* leaves 547(1991)439

5-Hydroxytryptamine

see Serotonin

5-Hydroxytryptophan

Determination of six indolic compounds, including melatonin, in rat pineal using high-performance liquid chromatography with serial fluorimetric-electrochemical detection 528(1990)111

Two-parameter mobile phase optimization for the simultaneous high-performance liquid chromatographic determination of dopamine, serotonin and related compounds in microdissected rat brain nuclei 547(1991)113

Hydroxy-uroporphyrin

Determination of hydroxy and peroxy acid derivatives of uroporphyrin in the plasma of patients with congenital erythropoietic porphyria by high-performance liquid chromatography 550(1991)603

Hyoscyamine

Combination of ion-pair and column switching in high-performance liquid chromatography of tropane alkaloids 547(1991)175

Hypoxanthine

Determination of purine nucleosides and their bases by high-performance liquid

chromatography using co-immobilized enzyme reactors 528(1990)91

Plasma and blood assay of xanthine and hypoxanthine by gas chromatography-mass spectrometry: physiological variations in humans 529(1990)93

Measurement of hypoxanthine and xanthine in late-gestation human amniotic fluid by reversed-phase high-performance liquid chromatography with photodiode-array detection 533(1990)73

Quantitation of adenosine, inosine and hypoxanthine in biological samples by microbore-column isocratic high-performance liquid chromatography 536(1991)265

Hypoxanthine, peptidyl derivatives

High-performance liquid chromatographic determination in human plasma of a new immunomodulatory agent with a peptidyl-hypoxanthine structure (RM 06) 525(1990)471

I**Ibuprofen**

Determination of non-steroidal anti-inflammatory analgesics in solid dosage forms by high-performance liquid chromatography on underivatized silica with aqueous mobile phase 504(1990)381

Effect of $^2\text{H}_2\text{O}$ on the resolution of the optical isomers of ibuprofen on an α_1 -acid glycoprotein column 518(1990)277

Measurement of ibuprofen in human whole blood by reversed-phase ion-paired high-performance liquid chromatography using a pH-stable polymeric column 526(1990)246

High-performance liquid chromatographic determination of the stereoisomeric metabolites of ibuprofen 528(1990)395

Stereoselective high-performance liquid chromatographic determination of ketoprofen, ibuprofen and fenoprofen in plasma using a chiral α_1 -acid glycoprotein column 532(1990)295

Ibutilide

Chiral separation of ibutilide enantiomers by derivatization with 1-naphthyl isocyanate and high-performance liquid chromatography on a Pirkle column 550(1991)621

Ignafos

Characterization of polymer additives by supercritical fluid chromatography and by liquid chromatography 505(1990)283

Imaging agents

Separation and detection of oxidation products in Neurolite raw material 550(1991)549

Imidazoles

Chromatographic data for pharmacological classification of imidazol(in)e drugs 550(1991)573

Imidazolines

Chromatographic data for pharmacological classification of imidazol(in)e drugs 550(1991)573

Imidazolium oximes

High-performance liquid chromatographic analysis of imidazolium and pyridinium oximes in plasma and urine 527(1990)371

Imine

Triazolines. XXII. Chromatography of 1-phenyl-5-(4-pyridyl)- Δ^2 -1,2,3-triazolines and related 1,2,3-triazoles, a new class of anticonvulsant agents 533(1990)248

Iminocarboxylic acids

High-performance liquid chromatographic analysis of octopinic acid, lysopine and nopalinic acid as sensitive indicators of *Agrobacterium*-induced crown gall tumours 514(1990)343

Iminodipeptides

Liquid chromatography-mass spectrometry for the qualitative analyses of iminodipeptides in the urine of patients with prolidase deficiency 527(1990)279

Imipramine

Controlling the retention of clopenthixol and other basic drug substances by reversed-phase ion-pair chromatography on bonded-phase materials using two counter-ions of opposite charge 523(1990)217

Rapid and simple high-performance liquid chromatographic determination of tricyclic

antidepressants for routine and emergency serum analysis 536(1991)319

Separation of seven tricyclic antidepressants using capillary electrophoresis 549(1991)375

Immobilized enzymes

Enzymic oxidation of monoclonal antibodies by soluble and immobilized bifunctional enzyme complexes 510(1990)321

Immunoglobulins

Tresyl-activated support for high-performance affinity chromatography 510(1990)101

Centrifugal affinity chromatography 510(1990)205

Chemistry and preparation of affinity ligands useful in immunoglobulin isolation and serum protein separation 510(1990)281

Oligosaccharide mapping of therapeutic glycoproteins by high-pH anion-exchange high-performance liquid chromatography 512(1990)149

Immobilized metal ion affinity chromatography for the purification of *Fel d 1*, a cat major allergen, from a house-dust extract 512(1990)177

Immobilization of Protein A at high density on azlactone-functional polymeric beads and their use in affinity chromatography 512(1990)345

High-performance liquid affinity chromatography for the purification of immunoglobulin A from human serum using jacalin 514(1990)219

Apparatus for coupled high-performance liquid chromatography and capillary electrophoresis in the analysis of complex protein mixtures 515(1990)659

Use of chromatography for the preparation of homologous tetanus antitoxin 520(1990)425

Analysis of human tear proteins by different high-performance liquid chromatographic techniques 525(1990)319

Purification of proteins on an epoxy-activated support by high-performance affinity chromatography 536(1991)95

High-performance affinity chromatography of immunoglobulin E on a column of

dinitrophenylamino acids covalently bound to a highly cross-linked polymeric micropellicular support 536(1991)155

Separation of antibody-antigen complexes by capillary zone electrophoresis, isoelectric focusing and high-performance size-exclusion chromatography 539(1991)177

Comparative affinity chromatographic studies using novel grafted polyamide and poly(vinyl alcohol) media 539(1991)307

A ten-residue fragment of an antibody (mini-antibody) directed against lysozyme as ligand in immunoaffinity chromatography 548(1991)235

Immunomodulators

Purification of immunomodulatory factors in human peripheral blood leukocytes 512(1990)139

Immunostimulants

High-performance liquid chromatographic approach to the separation of antiviral and immunostimulant fractions in Neuramide 512(1990)123

Immunosuppressants

Determination of a novel potent immunosuppressant (FK-506) in rat serum and lymph by high-performance liquid chromatography with chemiluminescence detection 530(1990)212

Imuthiol

Determination of sodium diethyldithiocarbamate (Imuthiol) and its S-methyl metabolite by gas chromatography-mass spectrometry. Use of deuteromethyl iodide derivatization 534(1990)57

Indanol

Reversed-phase chromatographic separation of selected hydroxyl aromatics with β -cyclodextrin as a mobile phase additive 514(1990)19

Indapamide

(*R*)- and (*S*)-Naphthylethylcarbamate-substituted β -cyclodextrin bonded stationary phases for the reversed-phase liquid chromatographic separation of enantiomers 539(1991)83

Indigotine

Isotachopheresis of some synthetic colorants in foods 545(1991)413

Indium

High-performance liquid chromatographic study of ligand-exchange reactions of fluorinated metal β -diketone chelates 517(1990)185

Simultaneous determination of molybdenum, vanadium, gallium, copper, iron and indium as 8-quinolinolate complexes by high-performance liquid chromatography 539(1991)225

Indobufen

High-performance liquid chromatographic method for direct resolution of the indobufen enantiomeric components 520(1990)373

Indole-3-acetic acid

Chromatographic behaviour of aromatic acids in reversed-phase high-performance liquid chromatography 523(1990)227

Determination of tryptophan and its metabolites in human plasma and serum by high-performance liquid chromatography with automated sample clean-up system 526(1990)367

Indoleacrylic acid

Rapid analysis of small molecules in the presence of DNA by high-performance liquid chromatography using internal surface reversed-phase silica 533(1990)195

Indole alkaloids

Gas chromatographic-mass spectrometric analysis of major indole alkaloids of *Catharanthus roseus* 505(1990)429

Indoleamines

Equilibrium of octadecylsilica gel with sodium dodecyl sulphate 515(1990)67

Detection and identification modes for the highly sensitive and simultaneous determination of various biogenic amines by coulometric high-performance liquid chromatography 515(1990)265

Optimal conditions for long-term storage of biogenic amines for subsequent analysis by column chromatography with electrochemical detection 518(1990)258

Indolelactic acid

Determination of tryptophan and its metabolites in human plasma and serum by high-performance liquid chromatography with automated sample clean-up system 526(1990)367

Indolepropionic acid

Determination of tryptophan and its metabolites in human plasma and serum by high-performance liquid chromatography with automated sample clean-up system 526(1990)367

Indoles

Direct injection of highly protein-bound compounds by column-switching high-performance liquid chromatography 527(1990)127

Determination of monoamines and indoles in amniotic fluid by high-performance liquid chromatography-electrochemical detection 528(1990)101

Determination of six indolic compounds, including melatonin, in rat pineal using high-performance liquid chromatography with serial fluorimetric-electrochemical detection 528(1990)111

Systematic search for suitable two-phase solvent systems for high-speed counter-current chromatography 538(1991)99

Indomethacin

Determination by high-performance liquid chromatography of the binding properties of charged β -cyclodextrin derivatives with drugs 503(1990)453

Determination of non-steroidal anti-inflammatory analgesics in solid dosage forms by high-performance liquid chromatography on underivatized silica with aqueous mobile phase 504(1990)381

Improved procedure for determination of indomethacin in plasma by capillary gas chromatography after solid-phase extraction 526(1990)210

Liquid chromatography with amperometric detection for the determination of non-steroidal anti-inflammatory drugs in plasma 533(1990)125

Indoquinone antitumour agent

Gradient high-performance liquid chromatographic assay for the determination of the novel indoloquinone antitumour agent E09 in biological specimens 532(1990)321

Inorganic acids

Principles and applications of ion-exclusion chromatography (Review) 546(1991)111

Inorganic anions

Simultaneous gas chromatographic determination of cyanide, iodide, nitrite, sulphide and thiocyanate anions by derivatization with pentafluorobenzyl bromide and using a kryptand as phase-transfer catalyst 502(1990)257

Environmental applications of ion chromatography (Review) 504(1990)211

Simultaneous determination of nitrites, nitrates and amines by ion-interaction reversed-phase high-performance liquid chromatography. Application to lagoon water 509(1990)147

Studies on the chromatographic behaviour of some uronic acids and neutral sugars on an amino-bonded phase column 513(1990)227

Analysis of atmospheric precipitation by reversed-phase ion-pair chromatography 514(1990)362

Simultaneous ion chromatography of inorganic anions together with some organic anions and alkaline earth metal cations using chelating agents as eluents 516(1990)383

Reversed-phase ion-pair chromatography with indirect photometric detection of inorganic anions from residues of low explosives 517(1990)305

Use of cyclodextrins in the isotachophoretic determination of various inorganic anions 518(1990)189

Factors affecting selectivity in micelle exclusion chromatography of inorganic anions 538(1991)341

Naphthalenesulfonates as mobile phases for anion-exchange chromatography using indirect photometric detection 542(1991)101

Sample preparation for ion chromatography by solid-phase extraction 546(1991)61

Universal stationary phase for the separation of anions on suppressor-based and single-column ion chromatographic systems 546(1991)89

Anion-cation separations on a mixed-bed ion-exchange column with indirect photometric detection 546(1991)101

Principles and applications of ion-exclusion chromatography (Review) 546(1991)111

Determination of analytes at extreme concentration ratios by gradient ion chromatography with solid-phase reaction detection 546(1991)151

Electrodialytic eluent generation and suppression. Ultralow background conductance suppressed anion chromatography 546(1991)159

Practical applications of solid-phase reagent conductivity detection in ion chromatography 546(1991)189

Separation of inorganic analyte anions on dye-coated stationary phases 546(1991)199

On-column matrix elimination of high levels of chloride and sulfate in non-suppressed ion chromatography 546(1991)221

Optimization of inorganic capillary electrophoresis for the analysis of anionic solutes in real samples 546(1991)411

Optimization of detection sensitivity in the capillary electrophoresis of inorganic anions 546(1991)431

Controlled changes of selectivity in the separation of ions by capillary electrophoresis 546(1991)445

Analysis of anion constituents of urine by inorganic capillary electrophoresis 546(1991)459

Inorganic cations

Anion-cation separations on a mixed-bed ion-exchange column with indirect photometric detection 546(1991)101

Inorganic ions

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction 546(1991)251

Ion chromatography for the analysis of household consumer products 546(1991)351

Determination of organic acids in food samples by capillary electrophoresis 546(1991)423

Inorganic polyphosphates, cyclic

Computer-assisted retention prediction system for inorganic cyclic polyphosphates and its application to optimization of gradients in anion-exchange chromatography 550(1991)5

Inosine

Determination of purine nucleosides and their bases by high-performance liquid chromatography using co-immobilized enzyme reactors 528(1990)91

Quantitation of adenosine, inosine and hypoxanthine in biological samples by microbore-column isocratic high-performance liquid chromatography 536(1991)265

Inositol phosphates

Ion-pair chromatography of inositol polyphosphates with N-methylimidipramine 528(1990)143

High-performance liquid chromatographic separation of inositol phosphate isomers employing a reversed-phase column and a micellar mobile phase 529(1990)65

Serial separation of inositol phosphates including pentakis- and hexakisphosphates on small anion-exchange columns 533(1990)201

Insecticides

see Pesticides

Insect metabolites

Isolation of the insect metabolite trehalose by high-performance liquid chromatography 515(1990)573

Insulin

High-performance liquid chromatography of insulin. Accessibility and flexibility 502(1990)325

Ion-exchange high-performance liquid chromatographic separation of peptides with UV photometric and electrochemical detection 509(1990)245

Insulin degradation *in vivo*: a high-performance liquid chromatographic analysis 534(1990)37

Non-ideal behaviour of silica-based stationary phases in trifluoroacetic acid-acetonitrile-based reversed-phase high-performance liquid chromatographic separations of insulins and proinsulins 536(1991)43

Breakthrough curves of insulin, [D-Phe⁶]-Gonadotropin-releasing hormone and phenylalanine methyl ester on copolymers of alkylacrylate and divinylbenzene 537(1991)167

Alternative mobile phases for the reversed-phase high-performance liquid chromatography of peptides and proteins 537(1991)181

Reversed-phase high-performance liquid chromatographic characterization of acetic acid extracts of the normal and the diabetic human pancreas 537(1991)201

Use of polymeric reversed-phase columns for the characterization of polypeptides extracted from human pancreata. I. Effect of the mobile phase 542(1991)65

Use of polymeric reversed-phase columns for the characterization of polypeptides extracted from human pancreata. II. Effect of the stationary phase 542(1991)83

Silica *versus* polymer-based stationary phases for reversed-phase high-performance liquid chromatographic analyses of rat insulin biosynthesis. A comparison of resolution and recovery 548(1991)195

Separation and quantitation of serum proinsulin and proinsulin intermediates in humans 548(1991)371

Quantitation of insulin injection by high-performance liquid chromatography and high-performance capillary electrophoresis 549(1991)357

Insulin A chain

Electrochemical detection of oligopeptides through the precolumn formation of biuret complexes 542(1991)345

Insulin II

High-performance liquid chromatography of rat and mouse islet polypeptides: potential risk of oxidation of methionine residues during sample preparation 530(1990)29

Insulin-like growth factor II

Purification and characterization of three molecular forms of insulin-like growth factor II from human Cohn paste IV 532(1990)237

Application of preparative high-performance liquid chromatography to the purification of a fetal ovine insulin-like growth factor II: N-terminal sequence determinations using two different carriers 533(1990)35

Interleukin- β

Large-scale purification of the synthetic peptide fragment 163–171 of human interleukin- β by multi-dimensional displacement chromatography 549(1991)175

Interleukin-1 β

Alternative mobile phases for the reversed-phase high-performance liquid chromatography of peptides and proteins 537(1991)181

Interleukin-2

Separation by cation-exchange high-performance liquid chromatography of three forms of Chinese hamster ovary cell-derived recombinant human interleukin-2 504(1990)351

Application of receptor-affinity chromatography to bioaffinity purification 510(1990)59

Monitoring of protein conformation by high-performance size-exclusion liquid chromatography and scanning diode array second-derivative UV absorption spectroscopy 540(1991)187

Isolation of an interleukin 2-binding receptor from activated lymphocytes by high-performance immunoaffinity chromatography 550(1991)741

Iodate

Factors affecting selectivity in micelle exclusion chromatography of inorganic anions 538(1991)341

Iodide

Ion chromatography with ultraviolet and amperometric detection for iodide and thiocyanate in concentrated salt solutions 502(1990)121

Simultaneous gas chromatographic determination of cyanide, iodide, nitrite, sulphide and thiocyanate anions by derivatization with pentafluorobenzyl bromide and using a kryptand as phase-transfer catalyst 502(1990)257

Determination of iodide in dairy products and table salt by ion chromatography with electrochemical detection 518(1990)268

Ion chromatography of inorganic iodine species using C_{18} reversed-phase columns coated with cetyltrimethylammonium 549(1991)265

Iodoanilines

Reversed-phase liquid chromatography of polar benzene derivatives on poly(vinylbenzo-18-

crown-6)-immobilized silica as a stationary phase 522(1990)107

Iododoxorubicin

High-performance liquid chromatography of iododoxorubicin and fluorescent metabolites in plasma samples 530(1990)192

Iododoxorubicinol

High-performance liquid chromatography of iododoxorubicin and fluorescent metabolites in plasma samples 530(1990)192

Iodothyronine

Identification of peptides containing aromatic amino acids, cysteine, iodotyrosine and iodothyronine by high-performance liquid chromatography with photodiode-array detection 512(1990)255

Iodotyrosine

Identification of peptides containing aromatic amino acids, cysteine, iodotyrosine and iodothyronine by high-performance liquid chromatography with photodiode-array detection 512(1990)255

Iohexol

Determination of partition coefficients of non-ionic contrast agents by reversed-phase high-performance liquid chromatography 507(1990)293

Iomeprol

High-performance liquid chromatographic assay of iomeprol in plasma and urine 525(1990)401

Ions, simple

Separation of simple ions by gel chromatography. I. Simple model of separation for single-salt systems 511(1990)59

Iopamidol

Determination of partition coefficients of non-ionic contrast agents by reversed-phase high-performance liquid chromatography 507(1990)293

Irganox

Quantitative analysis of additives in polymers using coupled supercritical fluid extraction–supercritical fluid chromatography 505(1990)273

Characterization of polymer additives by supercritical fluid chromatography and by liquid chromatography 505(1990)283

Étude par chromatographie liquide haute performance des antioxydants phénoliques présents dans les matériaux plastiques.

Comparaison de trois méthodes de détection: spectrophotométrique dans l'ultra-violet, électrochimique, et évaporative à diffusion de la lumière 522(1990)131

Retention prediction for polymer additives in reversed-phase liquid chromatography 550(1991)325

Iron

Studies on the separation of Al^{III}, Co^{III}, Cr^{III} and Fe^{III} complexes with acetylacetonone by reversed-phase high-performance liquid chromatography 502(1990)221

Determination of iron(III) ion using ion chromatography with electrochemical detection and its application to the assay of the ferroxidase activity of ceruloplasmin 503(1990)237

Simultaneous determination of molybdenum, vanadium, gallium, copper, iron and indium as 8-quinolinolate complexes by high-performance liquid chromatography 539(1991)225

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction 546(1991)251

The speciation of iron, manganese, phosphorus and platinum in aqueous solutions by using ion chromatography coupled with an element selective detector 547(1991)211

Iron chelators

Chromatography of 3-hydroxypyridin-4-ones: novel orally active iron chelators 519(1990)171

Iron dibutylidithiocarbamate

High-performance liquid chromatographic determination of dibutylidithiocarbamate degradation products in cucumbers and soil 502(1990)214

Irritants

Chromatographic analysis of chemical warfare agents (Review) 503(1990)293

Isepamicin

High-performance liquid chromatographic determination of isepamicin in plasma, urine and dialysate 526(1990)487

Column liquid chromatographic determination of isepamicin in nasal cavity using gauze 529(1990)473

Isethionic acid

Determination of isethionic acid by gas chromatography with flame photometric detection 528(1990)172

Isobutanol

Headspace analysis of polar compounds in air 509(1990)107

Isocarboxazid

Determination of marplan in human plasma using high-performance liquid chromatography 529(1990)237

Isocyanates

Indirect determination of isocyanates by gas chromatography 537(1991)357

Isodesmosine

Development and validation of a high-performance liquid chromatographic method for the determination of desmosines in tissues 507(1990)51

Isoflavones

Determination of isoflavones from *Ononis spinosa* L. extracts by high-performance liquid chromatography with ultraviolet diode-array detection 513(1990)397

Isoflavonoids

Application of gas chromatography-mass spectrometry to the identification of isoflavonoids in lupine root extracts 508(1990)391

Isotrurane

High-performance liquid chromatographic method for the direct determination of the volatile anaesthetics halothane, isoflurane and enflurane in water and in physiological buffer solutions 518(1990)250

Isoluminol microperoxidase

High-performance liquid chromatography with a 3 α -hydroxysteroid dehydrogenase postcolumn reactor and isoluminol-microperoxidase chemiluminescence detection 515(1990)329

Isomalt

Analysis of Palatinit[®] (isomalt) and its monomers in rat intestinal samples by high-performance liquid chromatography with ultraviolet detection 527(1990)238

Isomenthone

Use of two-dimensional gas chromatography in the direct enantiomer separation of chiral essential oil components 508(1990)341

Isoniazid

Rapid liquid chromatographic method for the estimation of isoniazid and pyrazinamide in plasma and urine 532(1990)418

Isonicotinic acid hydrazide

Capillary tube isotachopheric separation of niacin derivatives 521(1990)158

Isooctane

Multi-component principal component regression and partial least-squares analyses of overlapped chromatographic peaks 539(1991)123

Isoprenol

Gradient elution methods for predicting isocratic conditions (Review) 550(1991)425

Isopropyl N-(3-chlorophenyl)carbamate

Determination of organophosphorus and carbamate pesticide standards by liquid chromatography with detection by inhibition of immobilized acetylcholinesterase 539(1991)47

Isopropyl N-phenylcarbamate

Determination of organophosphorus and carbamate pesticide standards by liquid chromatography with detection by inhibition of immobilized acetylcholinesterase 539(1991)47

Isorhamnetin

High-performance liquid chromatographic determination of five widespread flavonoid aglycones 508(1990)236

Isorhamnetin-3-O-glycosides

Application of micellar electrokinetic capillary chromatography to the determination of flavonoid drugs 549(1991)367

Isosafrole

Development and use of carbon adsorbents in the liquid chromatographic separation of isomers 506(1990)371

Isosorbide-5-mononitrate

Determination of isosorbide-5-mononitrate in human serum by gas chromatography-mass spectrometry 525(1990)447

Isothiocyanates

Rapid gas chromatographic determination of volatile degradation products of glucosinolates in rapeseed oil 502(1990)167

Isotretinoin

Determination of tretinoin in creams by high-performance liquid chromatography 522(1990)227

Isovaleric acid

Positive-ion thermospray liquid chromatography-mass spectrometry: detection of organic acidurias 534(1990)1

Isradipine

Optical resolution of dihydropyridine enantiomers by high-performance liquid chromatography using phenylcarbamates of polysaccharides as a chiral stationary phase 513(1990)375

Itazigrel

Simple, rapid and sensitive high-performance liquid chromatographic procedure for the quantitation of itazigrel in human plasma or serum 527(1990)233

Itraconazole

Micro-scale method for itraconazole in plasma by reversed-phase high-performance liquid chromatography 525(1990)478

Determination of itraconazole in serum with high-performance liquid chromatography and fluorescence detection 532(1990)203

Ivermectin

Improved high-performance liquid chromatographic method for quantitation of ivermectin in whole blood, serum or muscle tissue 528(1990)250

J**Jacalin**

High-performance liquid affinity chromatography for the purification of immunoglobulin A from human serum using jacalin 514(1990)219

K**Kaempferol**

High-performance liquid chromatographic determination of five widespread flavonoid aglycones 508(1990)236

Application of micellar electrokinetic capillary chromatography to the determination of flavonoid drugs 549(1991)367

Kaempferol-3-glucoside

High-performance liquid chromatographic determination of flavonoid glucosides from *Helichrysum italicum* 537(1991)449

Kanamycin

High-performance liquid chromatographic determination of isepamicin in plasma, urine and dialysate 526(1990)487

Keratin

Feather keratin as a ligand in an affinity chromatographic technique for isolation of protease from *Trichophyton verrucosum* 520(1990)223

Ketanserin-binding inhibitor

Semi-preparative purification of an endogenous ligand for brain serotonin-2 receptors by coil planet centrifuge counter-current chromatography 538(1991)177

Keto bile acids

Simultaneous determination of keto and non-keto bile acids in human serum by gas chromatography with selected ion monitoring 525(1990)25

7-Ketocholesterol

Determination of a cholesterol oxide mixture by a single-run high-performance liquid chromatographic analysis using benzoylation 547(1991)105

Ketones

Improvement of activated carbon for air sampling 503(1990)33

Determination of binary diffusion coefficients of organic compounds in supercritical carbon dioxide by supercritical fluid chromatography 505(1990)169

Reversed-phase high-performance liquid chromatography in the investigation of the hydrophobicity of selected ketones 506(1990)109

Retention and heats of adsorption of *n*-alkanes, aromatic hydrocarbons, aliphatic alcohols and ketones on macroporous silicas 520(1990)47

Hydrogen–deuterium exchange in fused-silica capillary columns 549(1991)416

Ketoprofen

Determination of non-steroidal anti-inflammatory analgesics in solid dosage forms by high-performance liquid chromatography on underivatized silica with aqueous mobile phase 504(1990)381

Characteristics of ovomucoid-conjugated columns in the direct liquid chromatographic resolution of racemic compounds 511(1990)89

Stereoselective high-performance liquid chromatographic determination of ketoprofen, ibuprofen and fenoprofen in plasma using a chiral α_1 -acid glycoprotein column 532(1990)295

Ketorolac

Simultaneous determination of ketorolac and its hydroxylated metabolite in plasma by high-performance liquid chromatography 534(1990)241

Ketoximes

High-performance liquid chromatographic separation of monosaccharides as their peracetylated ketoximes and aldononitriles 519(1990)228

Reversed-phase high-performance liquid chromatography of ketoxime analogues of β -adrenergic blockers 541(1991)469

Reversed-phase high-performance liquid chromatography–thermospray mass spectrometry of alprenolol and its ketoxime analogues 541(1991)474

Koch acid

Separation and identification of impurities in the dye intermediate 8-amino-1-naphthol-3,6-disulphonic acid (H-acid) by high-performance liquid chromatography 514(1990)330

Kryptand

Simultaneous gas chromatographic determination of cyanide, iodide, nitrite, sulphide and

thiocyanate anions by derivatization with pentafluorobenzyl bromide and using a kryptand as phase-transfer catalyst 502(1990)257

Krypton

Analysis of internal filling gas of small-sized halogen lamps by gas chromatography 520(1990)213

Kynurenic acid

Quantification of kynurenic acid in cerebrospinal fluid: effects of systemic and central L-kynurenine administration 530(1990)108

Kynurenine

Determination of tryptophan and its metabolites in human plasma and serum by high-performance liquid chromatography with automated sample clean-up system 526(1990)367

Quantification of kynurenic acid in cerebrospinal fluid: effects of systemic and central L-kynurenine administration 530(1990)108

L

Labetolol

High-performance liquid chromatographic assay of dilevalol, a β -adrenoceptor blocker, in rat and human plasma 530(1990)458

α -Lactalbumin

Effect of metal ions on the unfolding kinetics of α -lactalbumin on weakly hydrophobic surfaces 536(1991)17

Column-friendly reversed-phase high-performance liquid chromatography of peptides and proteins using formic acid with sodium chloride and dynamic column coating with crown ethers 539(1991)37

High-performance liquid chromatography and ultrafiltration of whey proteins with inorganic porous materials coated with polyvinylimidazole derivatives 548(1991)215

β -Lactamases

Use of chromatofocusing for separation of β -lactamases. IX. Analytical chromatofocusing for the separation of a chromosomal cephalosporinase from *Proteus vulgaris* 1028 545(1991)189

 β -Lactams

High-performance liquid chromatographic method for the simultaneous assay of a new synthetic penem molecule and its salt-forming agent in injectable formulations 507(1990)171

Lactate

Isotachophoretic separation of organic acids in biological fluids 516(1990)251

Optimization of isotachophoretic analysis: use of the charge-based transient-state model 545(1991)249

Lactate dehydrogenase

Chromatographic purification of glucose-6-phosphate dehydrogenase and lactate dehydrogenase from *Leuconostoc mesenteroides* 503(1990)197

Affinity chromatography on novel perfluorocarbon supports. Immobilisation of C.I. Reactive Blue 2 on a polyvinyl alcohol-coated perfluoropolymer support and its application in affinity chromatography 510(1990)177

New aspects of dye-ligand affinity chromatography of lactate dehydrogenase applying spacer-mediated beaded cellulose 510(1990)189

Competitive elution of lactate dehydrogenase from Cibacron Blue-bead cellulose with Cibacron Blue-dextran 510(1990)197

Coated silica and its behaviour in dye-affinity chromatography 543(1991)9

Evaluation of displacement chromatography for the recovery of lactate dehydrogenase from beef heart under scale-up conditions 547(1991)145

Lactic acid

Utilization of capillary isotachopheresis in the determination of organic acids in food 509(1990)283

Lactobionate

High-performance liquid chromatography of reaction mixtures from the oxidation and degradation of lactose 549(1991)113

Lactoferrin

Analysis of human tear proteins by different high-performance liquid chromatographic techniques 525(1990)319

Isolation of human lactoferrin by affinity chromatography using insolubilized bovine β -lactoglobulin 525(1990)442

Metal ligand-induced alterations in the surface structures of lactoferrin and transferrin probed by interaction with immobilized copper(II) ions 536(1991)1

 β -Lactoglobulin

Column-friendly reversed-phase high-performance liquid chromatography of peptides and proteins using formic acid with sodium chloride and dynamic column coating with crown ethers 539(1991)37

Selective extraction of native β -lactoglobulin from whey 539(1991)455

High-performance liquid chromatography and ultrafiltration of whey proteins with inorganic porous materials coated with polyvinylimidazole derivatives 548(1991)215

Lactones

Evaluation of high-performance liquid and capillary gas chromatography for analysis of sesquiterpene lactones of the Melampodiinae 504(1990)151

Dünnschichtchromatographie von Guajanoliden des Unterstammes Centaureinae 505(1990)417

Use of thin-layer chromatography for the testing of avermectins produced by *Streptomyces avermitilis* strains 513(1990)401

Lactose

High-performance liquid chromatography of reaction mixtures from the oxidation and degradation of lactose 549(1991)113

Lactulose

High-performance liquid chromatography of reaction mixtures from the oxidation and degradation of lactose 549(1991)113

Lanatosides

Separation and determination of lanatosides in *Digitalis lanata* leaves by high-performance liquid chromatography 508(1990)241

Lanthanides

High-performance thin-layer chromatography of rare earth tetraphenylporphine complexes 504(1990)179

Separation of lanthanides and yttrium as anionic complexes by isocratic ion-interaction chromatography 537(1991)277

Continuous separation of lanthanides by counter-current fractional extraction 538(1991)125

Capillary tube isotachophoretic separation of lanthanide complexes using polyaminocarboxylic acid as terminating ion 540(1991)475

Peak interactions under concave isotherm conditions in preparative ion chromatography 546(1991)27

Lanthanoides

Preparative isotachophoretic analyser equipped with a dropwise fractionating device 513(1990)297

Lanthanum

Charged surface and mass transfer in dynamic ion exchangers 546(1991)17

Lappaconitine

Separation and characterization of the metabolic products of lappaconitine in rat urine by high-performance liquid chromatography 526(1990)109

Lasalocid

Separation and detection of monensin, lasalocid and salinomycin by thin-layer chromatography/bioautography 508(1990)386

Indirect thin-layer chromatography—fast atom bombardment and chemical ionization mass spectrometry determination of carbohydrates utilizing simple and rapid microtransfer techniques 514(1990)377

Latex

Particle characterization in centrifugal fields. Comparison between ultracentrifugation and sedimentation field-flow fractionation 517(1990)361

Determination of residual acrylamide monomer in solution and emulsion polymers by column-switching high-performance liquid chromatography 519(1990)363

Non-equilibrium analytical focusing field-flow fractionation using intrinsic hydrodynamic force and integral Doppler anemometry 520(1990)271

Laudanosine

Simplified method for the determination of atracurium and laudanosine in pig plasma by high-performance liquid chromatography and fluorimetric detection 526(1990)223

Determination of atracurium and laudanosine in human plasma by high-performance liquid chromatography 529(1990)319

Lauryl laurate

Simple, direct gas chromatography—mass spectrometry interface for the ion trap detector 504(1990)429

Lavender oil

Use of two-dimensional gas chromatography in the direct enantiomer separation of chiral essential oil components 508(1990)341

Lead

Use of crown ethers in the isotachophoretic determination of metal ions 523(1990)281

Preconcentration of divalent trace metals on chelating silicas followed by on-line ion chromatography 541(1991)443

Charged surface and mass transfer in dynamic ion exchangers 546(1991)17

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction 546(1991)251

Lead selenide

Lead selenide as a polar adsorbent for gas chromatography 520(1990)15

Lecithin

Isolation and purification of lecithin by preparative high-performance liquid chromatography 517(1990)219

High-performance affinity chromatography of a chick lectin on an adsorbent based on hydrophilic polymer gel 543(1991)315

Lectins

Isoelectric focusing studies of concanavalin A and the lentil lectin 502(1990)131

Effect of chain length of oligosaccharide in high-performance affinity chromatography of a

lectin on oligosaccharide-immobilized columns
502(1990)297

Immobilized mucin : an affinity matrix for the
isolation of winged bean acidic and basic lectins
503(1990)272

Purification of proteins on an epoxy-activated
support by high-performance affinity
chromatography 536(1991)95

Glycosylation of extracellular superoxide
dismutase studied by high-performance liquid
chromatography and mass spectrometry
548(1991)293

Lemon-peel oil

Fractionation of lemon-peel oil by semi-
preparative supercritical fluid chromatography
505(1990)237

Lenampicillin

High-performance liquid chromatographic assay
of ampicillin and its prodrug lenampicillin
507(1990)235

Lentinan

High-performance gel permeation
chromatography of water-soluble β -1,3-glucans
509(1990)213

Leucine

Displacement chromatography on cyclodextrin-
silicas. III. Enantiomer separations 506(1990)481

Investigation of parameters in the separation of
amino acid enantiomers by supercritical fluid
chromatography 514(1990)253

Resolution of 2,3,4,6-tetra-O-acetyl- β -D-
glucopyranosylisothiocyanate derivatives of
 α -methyl amino acid enantiomers by high-
performance liquid chromatography
541(1991)297

Leucovorin

Determination of low levels of the stereoisomers
of leucovorin and 5-methyltetrahydrofolate in
plasma using a coupled chiral-achiral high-
performance liquid chromatographic system with
post-chiral column peak compression
532(1990)227

Leukotriene antagonist

Stereochemical analysis of a leukotriene related
hydroxypentadecadiene using a chiral high-
performance liquid chromatography column and
diode array detection 542(1991)189

Leukotrienes

BIO-Fully Automated Sample Treatment high-
performance liquid chromatography and
radioimmunoassay for leukotriene E_4 in human
urine from asthmatics 526(1990)341

Simultaneous reversed-phase extraction of
lipoxygenase and cyclooxygenase metabolites of
arachidonic acid in nasal secretions:
methodological aspects 532(1990)217

Comparison between ethanol and methanol for
the reversed-phase high-performance liquid
chromatographic analysis of leukotriene B_4 and
its metabolites in cell incubation supernatants
532(1990)379

Extraction of urinary leukotriene E_4 by the
combined use of octadecyl reversed-phase and
 NH_2 normal-phase extraction columns
532(1990)387

Capillary isotachophoretic determination of
cysteinyll leukotrienes 545(1991)375

Levamisole

Analysis of veterinary drugs using supercritical
fluid chromatography and supercritical fluid
chromatography-mass spectrometry
540(1991)257

Levodopa

see 3,4-Dihydroxyphenylalanine

Lidocaine

Binding of lidocaine to plasma proteins resolved
by high-performance liquid chromatography
526(1990)562

Capillary gas chromatographic method for the
simultaneous determination of local anaesthetics
in plasma samples 533(1990)229

Lignins

Optimization of electrochemical detection in the
high-performance liquid chromatography of
lignin phenolics from lignocellulosic by-products
507(1990)439

Lignocellulosics

Size-exclusion chromatography of lignocellulosics
in wheat straw 536(1991)303

Limonene

Gas chromatographic separation of monoterpene
hydrocarbon enantiomers on α -cyclodextrin
513(1990)315

Analysis of packaged orange juice volatiles using headspace gas chromatography 540(1991)456

Approach to direct chiral recognition of some terpenic hydrocarbon constituents of essential oils by gas chromatography systems via β -cyclodextrin complexation 543(1991)171

Linallyl acetate

Use of two-dimensional gas chromatography in the direct enantiomer separation of chiral essential oil components 508(1990)341

Lincomycin

Assay of methylthiolinosaminide in fermentations by high-performance liquid chromatography with fluorescence detection 502(1990)184

Linoleic acid

Identification of individual diacylglycerols by adsorption thin-layer chromatography of their coordination complexes 538(1991)373

γ -Linoleic acid

Gas chromatographic-mass spectrometric identification of the fatty acids in borage oil using the picolinyl ester derivatives 521(1990)89

γ -Linolenic acid

Quantitative assessment of γ -linolenic acid in human blood and plasma with capillary gas chromatography 528(1990)447

Linoleyl alcohol

Long-chain fatty alcohol quantitation in subfemtomole amounts by gas chromatography-negative ion chemical ionization mass spectrometry. Application to long-chain acyl coenzyme A measurement 509(1990)325

Linomycin

Analysis of veterinary drugs using supercritical fluid chromatography and supercritical fluid chromatography-mass spectrometry 540(1991)257

Linuron

Carrier effect in the analysis of phenylurea herbicides using high-performance liquid chromatography-particle beam-mass spectrometry 549(1991)237

Lipids

Thin-layer and high-performance liquid chromatographic separation of glycerolipid subclasses as benzoates. Derivatives of ether and

ester analogues of phosphatidylcholine, phosphatidylethanolamine and platelet activating factor 508(1990)382

Gas-liquid chromatographic method for the determination of marine wax esters according to the degree of unsaturation 513(1990)327

Dynamic impregnation of silica stationary phases for the argentation chromatography of lipids 519(1990)349

Thin-layer chromatographic analysis of myelin lipids, their differential O-deacylation by primary alkylamines and their selective staining by thionine. A limited phylogenetic study 525(1990)339

Simple method for the analysis of glycerol enol ethers derived from plasmalogens in complex lipid mixtures and subsequent determination of the aldehydic components by gas chromatography-mass spectrometry 526(1990)303

Some limitations of plasma lipid analysis in clinical research by thin-layer chromatography with flame-ionization detection 530(1990)424

Purification of galactolipids by high-performance liquid chromatography for monolayer and Langmuir-Blodgett film studies 542(1991)307

Analysis and fractionation of natural source diacylglycerols as urethane derivatives by reversed-phase high-performance liquid chromatography 547(1991)89

Analysis of lipids in aging seed using capillary supercritical fluid chromatography 547(1991)393

Improved separation of lysoglycerolipids from solvolysates by reversed-phase high-performance liquid chromatography 549(1991)133

Rapid and sensitive method for the quantitation of non-polar lipids by high-performance thin-layer chromatography and fluorodensitometry 549(1991)387

α -Lipoic acid

Enantiomer separation of chiral barbiturates and of α -lipoic acid by capillary gas chromatography with modified cyclodextrins as chiral stationary phases 503(1990)256

Lipoproteins

Characterization of apolipoproteins from chicken plasma 512(1990)203

Determination of α -tocopherol, free cholesterol, esterified cholesterols and triacylglycerols in human lipoproteins by high-performance liquid chromatography 515(1990)585

Automated gel permeation chromatography of plasma lipoproteins by preparative fast protein liquid chromatography 525(1990)433

Lipoproteins, high density

Application of reversed-phase high-performance liquid chromatography to the separation of apolipoproteins A-IV, A-I and E from rat high-density lipoprotein 540(1991)386

Liposomes

Quantitative determination of cholesterol in liposome drug products and raw materials by high-performance liquid chromatography 507(1990)157

Liposome chromatography: liposomes immobilized in gel beads as a stationary phase for aqueous column chromatography (Review) 544(1991)283

5-Lipoxygenase inhibitor

Determination of the 5-lipoxygenase inhibitor (CGS 8515) in plasma by high-performance liquid chromatography using reductive electrochemical detection 534(1990)260

Liquid crystals

Determination of binary diffusion coefficients of organic compounds in supercritical carbon dioxide by supercritical fluid chromatography 505(1990)169

Lithium

Optimization of the procedure for the determination of alkali and alkaline-earth elements in sea water by suppressed ion chromatography 546(1991)259

Lorazepam

Resolution of enantiomeric lorazepam and its acyl and O-methyl derivatives and racemization kinetics of lorazepam enantiomers 535(1990)229

Comparison of a new ovomucoid and a second-generation α_1 -acid glycoprotein-based chiral column for the direct high-performance liquid chromatography resolution of drug enantiomers 545(1991)43

Lorglumide

Comparison of a new ovomucoid and a second-generation α_1 -acid glycoprotein-based chiral column for the direct high-performance liquid chromatography resolution of drug enantiomers 545(1991)43

Loxoprofen

High-performance liquid chromatographic determination of loxoprofen and its diastereomeric alcohol metabolites in biological fluids by fluorescence labelling with 4-bromomethyl-6,7-methylenedioxy coumarin 530(1990)387

Loxidine

Determination of loxidine in human serum by capillary column gas chromatography with nitrogen-phosphorus detection 533(1990)235

L-toxin

Fast purification of *Clostridium sordellii* cytotoxin 528(1990)357

Lubricants

Solubility of gasoline components in different lubricants for combustion engines determined by gas-liquid partition chromatography 538(1991)241

Luminarin 4

Luminarin 4 as a labelling reagent for carboxylic acids in liquid chromatography with peroxyoxalate chemiluminescence detection 542(1991)295

Lupulones

Applications of high-speed counter-current chromatography for the separation and isolation of natural products 538(1991)193

Lutein

High-performance liquid chromatographic determination of chloroplast pigments with optimized separation of lutein and zeaxanthin 508(1990)232

Resolution of lutein and zeaxanthin using a non-encapped, lightly carbon-loaded C_{18} high-performance liquid chromatographic column 543(1991)137

Characterization of major carotenoids in water convolvulus (*Ipomoea aquatica*) by open-column, thin-layer and high-performance liquid chromatography 543(1991)147

Luteinizing hormone

Separation of human glycoprotein hormones and their subunits by reversed-phase liquid chromatography 529(1990)33

Ovine luteinizing hormone. V. Significance of flow-through peaks observed during chromatofocusing as revealed by various methods of sample preparation and application 549(1991)141

Ovine luteinizing hormone. VI. Analysis of the misclassification errors in the separation of intrapituitary isohormones by chromatofocusing 549(1991)153

Luteolin

High-performance liquid chromatographic determination of five widespread flavonoid aglycones 508(1990)236

Lutetium chloride

Reversed-phase high-performance liquid chromatographic study of the formation of complexes of nucleotides and oligonucleotides with Lu(III) 516(1990)456

LY195448

High-performance liquid chromatographic measurement of (*R*)-4-[3-[(2-hydroxy-2-phenethyl)amino]-3-methylbutyl]benzamide monohydrochloride (LY195448) and its *p*-hydroxy metabolite in human plasma and urine 527(1990)473

Lypressin

Animal test or chromatography? Validated high-performance liquid chromatographic assay as an alternative to the biological assay for orniopressin 548(1991)335

Lysergic acid

Application of sodium lauryl sulphate ion-pairing reversed-phase high-performance liquid chromatography in the separation of some isomeric and other closely related basic compounds in pharmaceutical analysis 520(1990)367

Lysergic acid diethylamide

Gas chromatographic-electron-impact mass fragmentographic determination of lysergic acid diethylamide in urine 529(1990)103

Lysoglycosphingolipids

Improved separation of lysoglycolipids from solvolysates by reversed-phase high-performance liquid chromatography 549(1991)133

Lysopine

High-performance liquid chromatographic analysis of octopinic acid, lysopine and nopalinic acid as sensitive indicators of *Agrobacterium*-induced crown gall tumours 514(1990)343

Lyso-platelet-activating factor

Detection of lyso-platelet-activating factor by high-performance liquid chromatography after derivatisation with fluorescent fatty acids 527(1990)303

Lysosulphatide

Improved separation of lysoglycolipids from solvolysates by reversed-phase high-performance liquid chromatography 549(1991)133

Lysozyme

Two-component protein adsorption to the cation exchanger S Sepharose® FF 505(1990)329

Modification of silica with glucose for the separation of proteins by high-performance liquid chromatography 508(1990)289

Evaluation of factors which affect column performance with immobilized monoclonal antibodies. Model studies with a lysozyme-antilysozyme system 512(1990)23

Analysis of amino acids by liquid chromatography after pre-column derivatization with 4-nitrophenylisothiocyanate 512(1990)283

Synthetic antibody fragment as ligand in immunoaffinity chromatography 512(1990)337

Binding of lysozyme on the surface of entrapped phosphatidylserine-phosphatidylcholine vesicles and an example of high-performance lipid vesicle surface chromatography 512(1990)377

Binding capacities of hydroxyapatite for globular proteins 515(1990)193

Evaluation of ammonium acetate as a volatile buffer for high-performance hydrophobic-interaction chromatography 515(1990)279

High-performance liquid chromatography of proteins on a ceramic hydroxyapatite with volatile buffers 515(1990)521

High-performance liquid chromatography of amino acids, peptides and proteins. C. Characterisation of coulombic interactive regions on hen lysozyme by high-performance liquid anion-exchange chromatography and computer graphic analysis 517(1990)317

Analysis of human tear proteins by different high-performance liquid chromatographic techniques 525(1990)319

Method for the characterization of stationary phases for the separation of proteins by high-performance liquid chromatography 537(1991)1

Kinetic behaviour of a novel matrix ion exchanger, carboxymethyl-HVFM operated at high flow-rate 539(1991)255

Peptide separation by gel filtration high-performance liquid chromatography using a gradient elution system 545(1991)183

M

Macro creatine kinase

Clinical application of subforms of creatine kinase MM and macro creatine kinases 526(1990)423

α_2 -Macroglobulin

Apparatus for coupled high-performance liquid chromatography and capillary electrophoresis in the analysis of complex protein mixtures 515(1990)659

Immobilized metal ion affinity partitioning; a method combining metal-protein interaction and partitioning of proteins in aqueous two-phase systems 539(1991)267

Two-dimensional electrophoresis: agarose gel isotachopheresis followed by sodium dodecyl sulphate-polyacrylamide electrophoresis 545(1991)343

Macromolecules

Achievements and uses of critical conditions in the chromatography of polymers 507(1990)487

Macromolecules, rod-like

Size-exclusion chromatography dimension for rod-like macromolecules 515(1990)37

Magainin

Static and scanning array detection in capillary electrophoresis-mass spectrometry 516(1990)147

Magnesium

Electrodialysis pretreatment system for ion chromatography of strongly acidic samples and its application to the determination of magnesium and calcium 539(1991)221

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction 546(1991)251

Optimization of the procedure for the determination of alkali and alkaline-earth elements in sea water by suppressed ion chromatography 546(1991)259

Magnesium oxide

Optimization of the postcolumn hydrolysis reaction on solid phases for the routine high-performance liquid chromatographic determination of N-methylcarbamate pesticides in food products 507(1990)459

Maillard reaction products

Separation and partial characterization of Maillard reaction products by capillary zone electrophoresis 516(1990)287

Malachite green

Post-column reaction for simultaneous analysis of chromatic and leuco forms of malachite green and crystal violet by high-performance liquid chromatography with photometric detection 536(1991)217

Malate

Simultaneous determination of extractable sulphate and malate in plant extracts using ion chromatography 514(1990)371

Malathion

Small-scale method for the determination of organophosphorus insecticides in tea using sulphuric acid as clean-up reagent 516(1990)446

Malic acid

Utilization of capillary isotachopheresis in the determination of organic acids in food 509(1990)283

Simultaneous determination of organic acids and sugars in apples by gas-liquid chromatography 520(1990)201

Malonaldehyde

High-performance liquid chromatographic determination of malonaldehyde using *p*-nitrophenylhydrazine as a derivatizing reagent 514(1990)29

Determination of malonaldehyde in oxidized biological materials by high-performance liquid chromatography 515(1990)391

Determination of free malonaldehyde by gas chromatography with an electron-capture detector 526(1990)174

Malonyl ginsenosides

Preparative high-performance liquid chromatography on chemically modified porous glass. Isolation of acidic saponins from ginseng 537(1991)469

Malotilate

Measurement of the formation of a thioglucuronide, a metabolite of malotilate, in rat hepatic microsomes by high-performance liquid chromatography 526(1990)254

Malto-oligosaccharides

Post-column oligosaccharide dehydrogenase reactor for coulometric detection of malto-oligosaccharides in a liquid chromatographic system 537(1991)443

Ion chromatographic methods for the detection of starch hydrolysis products in ruminal digesta 546(1991)273

Malto-oligosaccharides, pyridylamino derivatives

Capillary zone electrophoresis of pyridylamino derivatives of maltooligosaccharides 514(1990)57

Mandelic acid

Quantitative gas chromatographic analysis of mandelic acid enantiomers 504(1990)287

Dichlorotetrafluoroacetone as a derivatisation reagent in the analysis of mandelic acids in human urine 527(1990)259

Manganese

Charged surface and mass transfer in dynamic ion exchangers 546(1991)17

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction 546(1991)251

The speciation of iron, manganese, phosphorus and platinum in aqueous solutions by using ion chromatography coupled with an element selective detector 547(1991)211

Mannitol

Analysis of Palatinit® (isomalt) and its monomers in rat intestinal samples by high-performance

liquid chromatography with ultraviolet detection 527(1990)238

D-Mannose

Selective post-column liquid chromatographic determination of sugars in spent sulphite liquor with two enzymatic electrochemical detectors in parallel 506(1990)423

α -D-Mannosidase

Electrophoretic study of α -D-mannosidase and α -D-galactosidase from dry seeds of *Pisum sativum* 540(1991)365

Marplan

Determination of marplan in human plasma using high-performance liquid chromatography 529(1990)237

Medetomidine

Direct high-performance liquid chromatographic separation of (+)- and (-)-medetomidine hydrochloride with an α_1 -acid glycoprotein chiral column 506(1990)627

Medicarpin

Separation and identification of phytoalexins from leaves of groundnut (*Arachis hypogaea*) and development of a method for their determination by reversed-phase high-performance liquid chromatography 547(1991)185

Medifoxamine

Measurement of medifoxamine metabolites in urine by high-performance liquid chromatography 528(1990)531

Medifoxamine N-oxide

Measurement of medifoxamine metabolites in urine by high-performance liquid chromatography 528(1990)531

Mefloquine

Determination of mefloquine in blood by supercritical fluid chromatography with electron-capture detection 527(1990)51

Determination of the enantiomers of mefloquine in plasma and whole blood using a coupled achiral-chiral high-performance liquid chromatographic system 529(1990)339

Megestrol acetate

Determination of megestrol acetate and cyproterone acetate in serum of patients with advanced breast cancer by high-performance liquid chromatography 529(1990)145

Melamine

High-performance liquid chromatographic separation of cyromazine and its metabolite melamine 505(1990)413

Melatonin

Determination of six indolic compounds, including melatonin, in rat pineal using high-performance liquid chromatography with serial fluorimetric–electrochemical detection 528(1990)111

Concurrent on-line sampling of melatonin in pineal microdialysates from conscious rat and its analysis by high-performance liquid chromatography with electrochemical detection 530(1990)47

Melittin

High-performance liquid chromatographic separation of modified and native melittin following transglutaminase-mediated derivatization with a dansyl fluorescent probe 548(1991)351

Membrane proteins

see also Proteins

Purification of gonadotropin releasing hormone receptors using the avidin–biotin technique 510(1990)233

Binding of sodium dodecyl sulphate to an integral membrane protein and to a water-soluble enzyme. Determination by molecular-sieve chromatography with flow scintillation detection 512(1990)3

Purification of membrane protein complexes isolated from a cyanobacterial thylakoid membrane by high-performance liquid chromatography 512(1990)219

Separation of membrane protein–sodium dodecyl sulphate complexes by high-performance liquid chromatography on hydroxyapatite 515(1990)399

Application of high-performance liquid chromatography to the purification, disintegration and molecular mass determination of pyruvate dehydrogenase multi-enzyme complexes from different sources 521(1990)169

Purification of the membrane-form variant surface glycoprotein of *Trypanosoma brucei* 521(1990)239

Purification of a recombinantly produced transmembrane protein (gp41) of HIV I 521(1990)267

Rapid purification of cytochrome *c* oxidase from *Paracoccus denitrificans* 521(1990)291

Isolation of an outer membrane protein complex from *Borrelia burgdorferi* by *n*-butanol extraction and high-performance ion-exchange chromatography 521(1990)325

Menthol

Use of two-dimensional gas chromatography in the direct enantiomer separation of chiral essential oil components 508(1990)341

Determination of menthol and menthol glucuronide in human urine by gas chromatography using an enzyme-sensitive internal standard and flame ionization detection 527(1990)59

Menthol glucuronide

Determination of menthol and menthol glucuronide in human urine by gas chromatography using an enzyme-sensitive internal standard and flame ionization detection 527(1990)59

Menthone

Use of two-dimensional gas chromatography in the direct enantiomer separation of chiral essential oil components 508(1990)341

Menthyl anthranilate

Determination of sunscreen compounds in topical sunscreen products 519(1990)117

Mepamil

Determination of mepamil in human plasma by reversed-phase high-performance liquid chromatography with fluorescence detection 529(1990)251

Mephesisin

Determination of mephesisin in plasma by high-performance liquid chromatography with fluorimetric detection 507(1990)221

Mephenorex

Détection spécifique par chromatographie gazeuse–spectrométrie de masse des amines sympathomimétiques urinaires dans le cadre des contrôles antidopage 541(1991)109

Mephenytoin

Chromatographic liquid-liquid ternary phase system with permethylated β -cyclodextrin as chiral additive 547(1991)59

Mephobarbital

Displacement chromatography on cyclodextrin-silicas. III. Enantiomer separations 506(1990)481

Mepindolol

Determination of mepindolol in plasma after transdermal drug delivery by high-performance liquid chromatography with electrochemical detection 526(1990)240

Mepirodipine

Determination of mepirodipine in plasma by capillary column gas chromatography-negative-ion chemical ionization mass spectrometry 528(1990)191

Mcpivacaine

Capillary gas chromatographic method for the simultaneous determination of local anaesthetics in plasma samples 533(1990)229

Mepyramine

Simple procedure involving derivatisation and thin-layer chromatography for the estimation of trace levels of halogenated alkylamines and their hydrolysis products in drug substances and formulations 543(1991)211

2-Mercaptoethanol

Automated precolumn derivatization of amino acids with *ortho*-phthalaldehyde using a hollow-fibre membrane reactor 502(1990)317

High-performance liquid chromatography of thiols with differential pulse polarographic detection of the catalytic hydrogen evolution current 515(1990)257

6-Mercaptopurine

Isolation of 6-mercaptopurine in human plasma by aluminum ion complexation for high-performance liquid chromatographic analysis 536(1991)349

Mercapturic acids

High-performance liquid chromatographic determination of urinary mercapturic acids in rat 526(1990)289

Metal chelates

High-performance liquid chromatographic study of ligand-exchange reactions of fluorinated metal β -diketone chelates 517(1990)185

Metal complexes

Studies on the separation of Al^{III}, Co^{III}, Cr^{III} and Fe^{III} complexes with acetylacetone by reversed-phase high-performance liquid chromatography 502(1990)221

Paper chromatographic studies of metal complexes. II. Comparison of square planar and octahedral complexes 504(1990)464

Factors influencing the retention of rare earth-tetraphenylporphine complexes in reversed-phase high-performance liquid chromatography 542(1991)351

Ionophoretic studies on mixed complexes. Metal-nitrilotriacetate-penicillamine system 542(1991)537

Study of chelating tendency of sulphur-containing amino acids by electrophoresis 547(1991)554

Metal cyano complexes

Determination of free cyanide in gold cyanidation process liquors by ion-interaction chromatography with post-column derivatization 550(1991)559

Metal β -diketonates

Reversed-phase liquid chromatographic retention of geometrical isomers of tris(β -diketonato)-chromium(III) and tris(β -diketonato)-cobalt(III). Comparison with liquid-liquid partition in a dodecane-(methanol-water) system 547(1991)225

Metal β -diketonates, fluorinated

High-performance liquid chromatographic study of ligand-exchange reactions of fluorinated metal β -diketone chelates 517(1990)185

Metal ions

Formazan derivatives as the precolumn derivatization reagents in a coupled high-performance liquid chromatographic-spectrophotometric system for trace metal determination 515(1990)603

Use of crown ethers in the isotachophoretic determination of metal ions 523(1990)281

Effect of metal ions on the unfolding kinetics of α -lactalbumin on weakly hydrophobic surfaces 536(1991)17

Study of isotachophoretic separation behaviour of metal cations by means of particle-induced

X-ray emission. I. Separation of twenty metal cations using an acetic acid buffer system and α -hydroxyisobutyric acid complex-forming system 538(1991)413

Metals

Use of ion chromatography in agricultural research (Review) 546(1991)387

Metamitron

Direct determination of metamitron in surface water by large sample volume injection 543(1991)244

Metazosin

Determination of metazosin in biological fluids by reversed-phase high-performance liquid chromatography with fluorescence detection 529(1990)245

Methacrylate

Separation of cations using methacrylate-based low-capacity cation exchangers 509(1990)369

Methacrylate-styrene copolymers

Liquid adsorption chromatography of styrene copolymers of methacrylates and acrylates 507(1990)473

Methamphetamine

Determination of methamphetamine, amphetamine and piperidine in human urine by high-performance liquid chromatography with chemiluminescence detection 515(1990)459

Spacer-displacement and carrier spacer-displacement thin-layer chromatography 520(1990)287

Assay of the optical isomers of methamphetamine and amphetamine in rat urine using high-performance liquid chromatography with chiral cellulose-based columns 525(1990)203

Determination of the amine metabolites of selegiline in biological fluids by capillary gas chromatography 527(1990)163

High-performance liquid chromatography-chemiluminescence determination of methamphetamine in human serum using N-(4-aminobutyl)-N-ethylisoluminol as a chemiluminogen 530(1990)154

Methane

Temperature dependence of dead time as determined by methane retention in open-tubular capillary gas chromatography 547(1991)239

Methanethiol

Generation of standard gaseous mixtures by thermal decomposition of surface compounds. Standard mixtures of thiols 540(1991)449

Methanol

Determination of individual hydrocarbons in automobile exhaust from gasoline-, methanol- and variable-fueled vehicles 503(1990)51

Packed column gas chromatography-capillary column gas chromatography-mass spectrometry coupling for the qualitative characterization of technical products 520(1990)175

Comparison between ethanol and methanol for the reversed-phase high-performance liquid chromatographic analysis of leukotriene B₄ and its metabolites in cell incubation supernatants 532(1990)379

Analytical isotachopheresis in biological monitoring of exposure to industrial chemicals (Review) 545(1991)369

Methaqualone

Coupled column chromatography in chiral separations. I. Enantiomeric separation on swollen microcrystalline cellulose triacetate columns after a pre-separation on a non-chiral alkylsilica column 513(1990)195

Methionine

Investigation of parameters in the separation of amino acid enantiomers by supercritical fluid chromatography 514(1990)253

Simultaneous liquid chromatographic determination of methionine hydroxy analogue and DL-methionine in feed formulations 516(1990)375

Solid-phase reagent containing the 3,5-dinitrophenyl tag for the improved derivatization of chiral and achiral amines, amino alcohols and amino acids in high-performance liquid chromatography with ultraviolet detection 537(1991)123

High-performance liquid chromatography of sulfur-containing amino acids and related compounds with amperometric detection at a modified electrode 543(1991)226

Methionine enkephalin

Proenkephalin A and proopioidmelanocortin peptides in human cerebrospinal fluid 530(1990)235

Methionine hydroxy analogue

Simultaneous liquid chromatographic determination of methionine hydroxy analogue and DL-methionine in feed formulations 516(1990)375

Methotrexate

Preparation and evaluation of octadecyl-treated porous glasses. Application to the determination of methotrexate in serum 515(1990)43

On-line precolumn photochemical generation of pH gradient: micro-high-performance liquid chromatography of methotrexate and its impurities 522(1990)205

Methotrimeprazine

High-performance liquid chromatography of levomepromazine (methotrimeprazine) and its main metabolites 503(1990)205

5'-O-(4-Methoxy-4'-alkoxytrityl)thymidine

High-performance liquid chromatography of synthetic oligonucleotides. A new affinity protecting group 549(1991)207

p-Methoxycinnamic acid

Rapid analysis of small molecules in the presence of DNA by high-performance liquid chromatography using internal surface reversed-phase silica 533(1990)195

3-Methoxy-O-demethylencainide

Encainide and metabolites analysis in serum or plasma using a reversed-phase high-performance liquid chromatographic technique 526(1990)260

Analysis of encainide and its three major metabolites in plasma by column liquid chromatography 534(1990)223

3-Methoxy-4-hydroxyphenylacetic acid

Two-parameter mobile phase optimization for the simultaneous high-performance liquid chromatographic determination of dopamine, serotonin and related compounds in microdissected rat brain nuclei 547(1991)113

2-Methoxy-3-isobutylpyrazine

New sensitive method for the examination of the volatile flavor fraction of cabernet sauvignon wines 522(1990)315

Methoxy-1,2-phenylenediamine

Assay for both ascorbic and dehydroascorbic acid in dairy foods by high-performance liquid chromatography using precolumn derivatization with methoxy- and ethoxy-1,2-phenylenediamine 543(1991)367

2-Methoxy-5-(N-phthalimidyl)benzenesulphonyl chloride

Phthalimidylbenzenesulphonyl chlorides as fluorescence labelling reagents for amino acids in high-performance liquid chromatography 502(1990)178

5-Methoxypsoralen

Simple equilibrium dialysis-high-performance liquid chromatographic method for the *in vitro* assessment of 5-methoxypsoralen bound to human albumin 539(1991)443

1-Methyladenosine

Isolation and identification of urinary nucleosides. Applications of high-performance liquid chromatographic methods to the synthesis of 5'-deoxyxanthosine and the simultaneous determination of 5,6-dihydrouridine and pseudouridine 515(1990)537

Methylamine

Gas chromatographic retention properties of organoammonium exchanged montmorillonites. II. $\text{CH}_3\text{N}^+\text{H}_3$, $(\text{CH}_3)_4\text{N}^+$, $(\text{CH}_3)_3\text{N}^+\text{CH}_2\text{C}_6\text{H}_5$ and 1,4-diazabicyclo[2.2.2]octane $\cdot 2\text{H}^+$ 549(1991)283

 α -Methyl amino acids

Resolution of 2,3,4,6-tetra-O-acetyl- β -D-glucopyranosylisothiocyanate derivatives of α -methyl amino acid enantiomers by high-performance liquid chromatography 541(1991)297

2-Methylaminosuccinic acid

Resolution of the neuroexcitatory N-methylaspartic acid (2-methylaminosuccinic acid) enantiomers by ligand-exchange thin-layer chromatography 502(1990)226

N-Methylaspartic acid

Resolution of the neuroexcitatory N-methylaspartic acid (2-methylaminosuccinic acid) enantiomers by ligand-exchange thin-layer chromatography 502(1990)226

7-Methylbenz[*c*]acridine

High-performance liquid chromatographic method for the determination of polycyclic hydrocarbon metabolite distributions 530(1990)337

Methylbenzoate

Investigation of interfering products in the high-performance liquid chromatographic determination of polyamines as benzoyl derivatives 518(1990)264

α -Methylbenzylamine

Resolution of (\pm)-2-aminoheptane enantiomers by inductive adsorption chromatography 540(1991)157

 α -Methylbutyric acids, α -substituted

Enantiomeric separation of racemic α -substituted α -methylbutyric acid derivatives on microcrystalline cellulose triacetate 520(1990)361

N-Methylcarbamates

Optimization of the postcolumn hydrolysis reaction on solid phases for the routine high-performance liquid chromatographic determination of N-methylcarbamate pesticides in food products 507(1990)459

3-Methylcholanthrene

High-performance liquid chromatographic method for the determination of 3-methylcholanthrene in channel catfish plasma 534(1990)208

3-Methylcrotonyl-coenzyme A carboxylase

High-performance liquid chromatographic determination of four kinds of biotin-containing carboxylase 529(1990)55

Methylcyclopentadiene dimers

Chromatographic study of methylcyclopentadiene dimers and iso-dimers and determination of their boiling points 508(1990)363

Methylcysteine

Study of chelating tendency of sulphur-containing amino acids by electrophoresis 547(1991)554

5-Methylcytosine

Determination of 5-methylcytosine content of four Cucurbitaceae species using high-performance liquid chromatography 540(1991)397

Methyl dopa

High-performance liquid chromatographic determination of L-3-(3,4-dihydroxyphenyl)-2-methylalanine (α -methyl dopa) in human urine and plasma 541(1991)285

Separation and estimation of small amounts of the enantiomers of carbidopa and methyl dopa on a chiral stationary phase with L-phenylalanine as selector in ligand-exchange chromatography 545(1991)115

Stability-indicating high-performance liquid chromatographic assay for α -methyl dopa in sustained-release capsules 549(1991)221

3-O-Methyl dopa

Simple automated high-performance liquid chromatographic column-switching technique for the measurement of dopa and 3-O-methyl dopa in plasma 530(1990)253

Simultaneous high-performance liquid chromatographic analysis of carbidopa, levodopa and 3-O-methyl dopa in plasma and carbidopa, levodopa and dopamine in urine using electrochemical detection 534(1990)87

Methylene blue

Sensitive, indirect photometric detector for high-performance liquid chromatography using a light-emitting diode 502(1990)305

Methylene chloride

Improvement of activated carbon for air sampling 503(1990)33

4,4'-Methylenedianiline

Determination of 4,4'-methylenedianiline in hydrolysed human urine using liquid chromatography with UV detection and peak identification by absorbance ratio 511(1990)185

1-Methyl-3-ethylimidazolium

Separation of cations in buffered 1-methyl-3-ethylimidazolium chloride-aluminum chloride ionic liquids by ion chromatography 547(1991)484

Methyl farnesoate

Quantification of methyl farnesoate levels in hemolymph by high-performance liquid chromatography 545(1991)71

N²-Methylguanosine

Isolation and identification of urinary nucleosides. Applications of high-performance liquid chromatographic methods to the synthesis of 5'-deoxyxanthosine and the simultaneous determination of 5,6-dihydrouridine and pseudouridine 515(1990)537

3-Methylhistidine

Determination of 3-methylhistidine in hydrolysed proteins by fluorescamine derivatization and high-performance liquid chromatography 536(1991)283

Methyl 5-hydroxyeicosatetraenoate

Derivatization of hydroxyeicosatetraenoic acid methyl esters with pentafluorobenzoic anhydride and analysis with supercritical fluid chromatography-chemical ionization mass spectrometry 543(1991)405

(±)-Methyl-2-hydroxylaurate

Analytical gas chromatographic separations of diastereomeric *tert*-butylmethoxyphenylsilyl ethers 514(1990)305

(±)-Methyl-2-hydroxymyristate

Analytical gas chromatographic separations of diastereomeric *tert*-butylmethoxyphenylsilyl ethers 514(1990)305

4-Methylimidazole

High-performance liquid chromatographic determination of 4-methylimidazole in sheep plasma and in ammoniated tall fescue hay 532(1990)105

N-Methylimipramine

Ion-pair chromatography of inositol polyphosphates with N-methylimipramine 528(1990)143

Ion-pair chromatography of inositol polyphosphates with N-methylimipramine 528(1990)143

1-Methylinosine

Isolation and identification of urinary nucleosides. Applications of high-performance liquid chromatographic methods to the synthesis of 5'-deoxyxanthosine and the simultaneous determination of 5,6-dihydrouridine and pseudouridine 515(1990)537

Methyl iodide

Gradient elution methods for predicting isocratic conditions (Review) 550(1991)425

N-Methylisoquinolinium ion

Studies on the uptake of N-methylisoquinolinium ion into rat striatal slices using high-performance liquid chromatography with fluorimetric detection 503(1990)189

Endogenous synthesis of N-methyl-1,2,3,4-tetrahydroisoquinoline, a precursor of N-methylisoquinolinium ion, in the brains of primates with parkinsonism after systemic administration of 1,2,3,4-tetrahydroisoquinoline 533(1990)145

 α -Methylleucine

Resolution of 2,3,4,6-tetra-O-acetyl- β -D-glucopyranosylisothiocyanate derivatives of α -methyl amino acid enantiomers by high-performance liquid chromatography 541(1991)297

Methylmalonic acid

Positive-ion thermospray liquid chromatography-mass spectrometry: detection of organic acidurias 534(1990)1

Methyl mandelate

Chromatographic liquid-liquid ternary phase system with permethylated β -cyclodextrin as chiral additive 547(1991)59

Methylmercury chloride

Evaluation of an alternating current plasma emission detector for high-performance liquid chromatography 513(1990)159

Methyl methacrylate

Preliminary results on the gas chromatographic evaluation of interpenetrating polymer networks prepared from porous polymer beads 502(1990)393

Applications of semi-micro supercritical fluid chromatography with gradient elution to synthetic oligomer separation 515(1990)629

Dosage du méthylmethacrylate dans le sérum par chromatographie liquide à haute performance 525(1990)249

N-Methylnicotinamide

Capillary tube isotachophoretic separation of niacin derivatives 521(1990)158

N-Methyloleoyl taurate

Determination of creatinine in serum by high-performance liquid chromatography: a comparison of three ion-exchange methods 527(1990)21

Methylphenidate

Capillary gas chromatographic-mass spectrometric analysis of plasma methylphenidate 528(1990)214

Enantioselective gas chromatographic assay with electron-capture detection for *dl*-ritalinic acid in plasma 530(1990)327

Détection spécifique par chromatographie gazeuse-spectrométrie de masse des amines sympathomimétiques urinaires dans le cadre des contrôles antidopage 541(1991)109

Methylphenobarbital

Chromatographic liquid-liquid ternary phase system with permethylated β -cyclodextrin as chiral additive 547(1991)59

Methylphenylsiloxane

Behaviours of siloxane polymers containing phenyl or silylene as stationary phases for high-temperature gas chromatography 514(1990)259

4'-O-Methylpiceid

Recent applications of counter-current chromatography to the isolation of bioactive natural products 538(1991)187

2-Methylpyrazine

Determination of 2-methylpyrazine and pyrazinamide in reaction mixtures by gas and high-performance liquid chromatography 513(1990)83

Methyl red

Isoelectric focusing field-flow fractionation. II. Experimental study of focusing of methyl red in the trapezoidal cross-section channel 545(1991)349

1-Methyl-1,2,3,4-tetrahydro- β -carboline

Highly sensitive method for the determination of 1-methyl-1,2,3,4-tetrahydro- β -carboline using combined capillary gas chromatography and negative-ion chemical ionization mass spectrometry 528(1990)1

5-Methyltetrahydrofolate

Determination of low levels of the stereoisomers of leucovorin and 5-methyltetrahydrofolate in plasma using a coupled chiral-achiral high-performance liquid chromatographic system with post-chiral column peak compression 532(1990)227

N-Methyl-1,2,3,4-tetrahydroisoquinoline

Endogenous synthesis of N-methyl-1,2,3,4-tetrahydroisoquinoline, a precursor of N-methylisoquinolinium ion, in the brains of primates with parkinsonism after systemic administration of 1,2,3,4-tetrahydroisoquinoline 533(1990)145

Methylthiolincosaminide

Assay of methylthiolincosaminide in fermentations by high-performance liquid chromatography with fluorescence detection 502(1990)184

Methylthiouracil

High-performance liquid chromatographic determination of propylthiouracil in plasma 507(1990)247

Methylxanthines

High-performance liquid chromatography of amino acids, peptides and proteins. CI. Identification and characterisation of coulombic interactive regions on sperm whale myoglobin by high-performance anion-exchange chromatography and computer-graphic analysis 507(1990)33

Simultaneous analysis of theophylline, caffeine and eight of their metabolic products in human plasma by gradient high-performance liquid chromatography 507(1990)199

Methylxanthines, metabolites

Gas chromatographic-mass spectrometric quantitation of tri-, di- and monomethylxanthines and uric acids from hepatocyte incubation media 532(1990)261

Metocurine

Simple high-performance liquid chromatographic method for the analysis of the non-depolarizing neuromuscular blocking drugs in clinical anaesthesia 533(1990)241

Metolazone

Quantitation of metolazone in urine by high-performance liquid chromatography with fluorescence detection 534(1990)228

Metoprolol

Chiral chloroformates as transparent reagents for the resolution of metoprolol enantiomers by reversed-phase liquid chromatography 506(1990)593

Separation of the enantiomers of β -receptor blocking agents and other cationic drugs using a CHIRAL-AGP[®] column. Binding properties and characterization of immobilized α_1 -acid glycoprotein 519(1990)285

Chiral stationary phase for the facile resolution of β -adrenoceptor blocking agents 521(1990)122

Analysis of metoprolol enantiomers in human serum by liquid chromatography on a cellulose-based chiral stationary phase 530(1990)83

Enantiomeric separation of amines using N-benzoxycarbonylglycyl-L-proline as chiral additive and porous graphitic carbon as solid phase 543(1991)287

Metrifonate

Determination of metrifonate and dichlorvos in whole blood using gas chromatography and gas

chromatography and gas chromatography–mass spectrometry 529(1990)309

Metrizamide

Aqueous two-phase systems with increased density for partition of heavy particles 522(1990)235

Metypapone

Semi-automated high-performance liquid chromatographic method for the simultaneous assay of plasma cortisol and 11-deoxycortisol in the metypapone test 526(1990)180

Mexiletine

Liquid chromatographic evaluation of chiral derivatizing reagents for the resolution of amine and alcohol enantiomers 508(1990)220

High-performance liquid chromatography of mexiletine in plasma 530(1990)164

Micelles

Mechanistic study on the derivatization of aliphatic carboxylic acids in aqueous non-ionic micellar systems 507(1990)351

Microporous carbon black

Determination of heats of adsorption on graphite and on a microporous carbon black by gas–solid chromatography 520(1990)69

Microsystems

Internal surface reversed-phase high-performance liquid chromatographic separation of the cyanobacterial peptide toxins microcystin-LA, -LR, -YR, -RR and nodularin 509(1990)390

Midazolam

Rapid, sensitive determination of human serum midazolam by high-performance liquid chromatography 528(1990)526

High-performance liquid chromatographic assay to determine midazolam and flumazenil simultaneously in human plasma 530(1990)177

Milk fat

Argentation chromatography of fatty acid methyl esters using silver-loaded solid-phase extraction columns 504(1990)202

Mineral acids

Thin-layer chromatographic behaviour and separation of zirconium(IV) and hafnium(IV) on silica gel in mineral acid–hydrogen peroxide media 539(1991)169

Mineral oil

Automatic sampler for Curie-point pyrolysis–gas chromatography with on-column introduction of pyrolysates 518(1990)9

Mitomycin C

Determination of mitomycin C in serum by high-performance liquid chromatography with dual-electrode coulometric detection 527(1990)441

Mitoxantrone

Novel assay method for mitoxantrone in plasma, and its application in cancer patients 532(1990)337

Molsidomine

Determination of the active metabolite of molsidomine in human plasma by reversed-phase high-performance liquid chromatography 528(1990)435

Molybdenum

Simultaneous determination of molybdenum, vanadium, gallium, copper, iron and indium as 8-quinolinolate complexes by high-performance liquid chromatography 539(1991)225

Monensin

Separation and detection of monensin, lasalocid and salinomycin by thin-layer chromatography/bioautography 508(1990)386

Indirect thin-layer chromatography–fast atom bombardment and chemical ionization mass spectrometry determination of carbohydrates utilizing simple and rapid microtransfer techniques 514(1990)377

N-Monoacetylcystathionine

Determination of N-monoacetylcystathionine in biological samples using isotachopheresis 526(1990)550

Monoamine oxidase B

Determination of the monoamine oxidase B inhibitor Ro 19-6327 in plasma by high-performance liquid chromatography using precolumn derivatization with fluorescamine and fluorescence detection 507(1990)187

Monoamines

Determination of monoamines and indoles in amniotic fluid by high-performance liquid chromatography–electrochemical detection 528(1990)101

Fingerprinting of molecular components in individual human cerebrospinal fluid samples with a new micropurification system 548(1991)311

Monoamino ligands

Coupling of mono- and polyamino ligands to solid phases by nucleophilic attack on coupling groups that may be spontaneously hydrolysed 525(1990)246

Monochloroacetic acid

Isotachophoretic analyser equipped with a scanning ultraviolet photometric detection system 538(1991)403

Monoclonal antibodies

see also Antibodies

High-performance liquid chromatographic separation of biomolecules using calcium phosphate supported on macroporous silica microparticles 504(1990)319

Enhanced activity of immobilized dimethylmaleic anhydride-protected poly- and monoclonal antibodies 510(1990)303

Enzymic oxidation of monoclonal antibodies by soluble and immobilized bifunctional enzyme complexes 510(1990)321

Evaluation of factors which affect column performance with immobilized monoclonal antibodies. Model studies with a lysozyme-antilysozyme system 512(1990)23

Capillary zone electrophoresis for monitoring r-DNA protein purification in multi-compartment electrolyzers with immobilized membranes 516(1990)133

Purification of anti-paraquat monoclonal antibodies by affinity chromatography on immobilised hapten 516(1990)433

High-performance affinity chromatography of immunoglobulin E on a column of dinitrophenylamino acids covalently bound to a highly cross-linked polymeric micropellicular support 536(1991)155

Chemical, physical and chromatographic properties of Superdex 75 prep grade and Superdex 200 prep grade gel filtration media 537(1991)17

Separation of antibody-antigen complexes by capillary zone electrophoresis, isoelectric focusing

and high-performance size-exclusion chromatography 539(1991)177

Immobilized metal ion affinity partitioning, a method combining metal-protein interaction and partitioning of proteins in aqueous two-phase systems 539(1991)267

High-performance affinity chromatography of a chick lectin on an adsorbent based on hydrophilic polymer gel 543(1991)315

Isolation of an interleukin 2-binding receptor from activated lymphocytes by high-performance immunoaffinity chromatography 550(1991)741

Monodansylcadaverine

Rapid determination by high-performance liquid chromatography of free fatty acids released from rat platelets after derivatization with monodansylcadaverine 515(1990)467

Monodesmethylcitalopram

Simultaneous determination of citalopram, monodesmethylcitalopram and didesmethylcitalopram in plasma by high-performance liquid chromatography after column extraction 527(1990)226

Monofluorophosphate

Ion chromatography for the analysis of household consumer products 546(1991)351

Monoolein

Rapid and sensitive method for the quantitation of non-polar lipids by high-performance thin-layer chromatography and fluorodensitometry 549(1991)387

Monosaccharides

Identification of monosaccharides by high-performance liquid chromatography using methanolysis and a light-scattering detector 514(1990)70

High-performance liquid chromatographic separation of monosaccharides as their peracetylated ketoximes and aldonitriles 519(1990)228

Determination of monosaccharides by high-performance liquid chromatography in systemic candidosis 525(1990)169

Pulsed amperometric detection of carbohydrates in lysosomal storage disease fibroblasts: a new screening technique for carbohydrate storage diseases 533(1990)11

Determination of xylose oligomers and monosaccharides by anion-exchange chromatography with pulsed amperometric detection 546(1991)289

Monoterpene glycosides

Analysis of the components of *Paeonia radix* by capillary zone electrophoresis 515(1990)653

Monoterpenes

Gas chromatographic retention indices of monoterpenes and sesquiterpenes on methyl silicone and Carbowax 20M phases (Review) 503(1990)1

Gas chromatographic separation of monoterpene hydrocarbon enantiomers on α -cyclodextrin 513(1990)315

Essential oil from *Thymus borgiae*, a new Iberian species of the *Hyphodromi* section 518(1990)230

Monoterpenoids

Gas chromatographic determination of monoterpenes in essential oil medicinal plants 542(1991)451

Monovalent ions

Quantitative analysis in capillary zone electrophoresis with conductivity and indirect UV detection 549(1991)345

Monuron

Carrier effect in the analysis of phenylurea herbicides using high-performance liquid chromatography-particle beam-mass spectrometry 549(1991)237

Morin

High-performance liquid chromatographic determination of five widespread flavonoid aglycones 508(1990)236

Morphiceptin

Capillary zone electrophoresis-mass spectrometry using a coaxial continuous-flow fast atom bombardment interface 516(1990)167

Morphine

Extraction of major alkaloids from poppy straw with near-critical mixtures of carbon dioxide and polar modifiers 505(1990)247

Direct injection high-performance liquid chromatographic assay of morphine with electrochemical detection, a polymeric column and an alkaline eluent 507(1990)253

Fast reliable assay for morphine and its metabolites using high-performance liquid chromatography and native fluorescence detection 525(1990)379

Determination of pholcodine and its metabolites in urine by capillary gas chromatography 532(1990)277

Separation of opium alkaloids by thin-layer chromatography combined with flame ionization detection using the peak pyrolysis method 547(1991)538

Gradient elution methods for predicting isocratic conditions (Review) 550(1991)425

Morphine glucuronides

Fast reliable assay for morphine and its metabolites using high-performance liquid chromatography and native fluorescence detection 525(1990)379

Morpholine

Solid-phase reagent containing the 3,5-dinitrophenyl tag for the improved derivatization of chiral and achiral amines, amino alcohols and amino acids in high-performance liquid chromatography with ultraviolet detection 537(1991)123

Separation and detection of group I and II cations by ion chromatography 546(1991)229

Morsuximide

Chromatographic liquid-liquid ternary phase system with permethylated β -cyclodextrin as chiral additive 547(1991)59

Mucins

High-performance size-exclusion chromatography of porcine colonic mucins. Comparison of Bio-Gel* TSK 40XL and Sepharose[®] 4B columns 518(1990)349

Mucopolysaccharidoses

Pulsed amperometric detection of carbohydrates in lysosomal storage disease fibroblasts: a new screening technique for carbohydrate storage diseases 533(1990)11

Multidentate silicas

Silicas chemically bonded with multidentate phenyl groups as stationary phases in reversed-phase liquid chromatography used for non-planarity recognition of polycyclic aromatic hydrocarbons 517(1990)193

Muramic acid

Simultaneous determination of neutral and amino sugars in biological materials 513(1990)71

Mustard

Capillary column gas chromatography-mass spectrometry and gas chromatography-tandem mass spectrometry detection of chemical warfare agents in a complex airborne matrix 504(1990)259

Mycophenolic acid

High-performance liquid chromatographic determination of mycophenolic acid in fermentation broth 540(1991)383

Mycotoxins

Neutral, alkaline and difference ultraviolet spectra of secondary metabolites from *Penicillium* and other fungi, and comparisons to published maxima from gradient high-performance liquid chromatography with diode-array detection 511(1990)195

Rapid and sensitive detection of citrinin production during fungal fermentation using high-performance liquid chromatography 535(1990)317

Determination of patulin by capillary gas chromatography of the heptafluorobutyrate derivative 538(1991)441

Selective determination of altertoxins by high-performance liquid chromatography with electrochemical detection with dual "in-series" electrodes 540(1991)376

Automated aflatoxin analysis of foods and animal feeds using immunoaffinity column clean-up and high-performance liquid chromatographic determination 543(1991)220

Myelin-associated glycoprotein

Purification of myelin-associated glycoprotein from calf brain using high-performance liquid chromatography 526(1990)535

Myelin basic protein

Rapid method based on reversed-phase high-performance liquid chromatography for purification of human myelin basic protein and its thrombic and endoproteinase Lys-C peptides 528(1990)79

Myelin lipids

Thin-layer chromatographic analysis of myelin lipids, their differential O-deacylation by primary

alkylamines and their selective staining by thionine. A limited phylogenetic study 525(1990)339

Myoglobin

High-performance liquid chromatography of amino acids, peptides and proteins. CI. Identification and characterisation of coulombic interactive regions on sperm whale myoglobin by high-performance anion-exchange chromatography and computer-graphic analysis 507(1990)33

Modification of the selectivity of a reversed-phase high-performance liquid chromatographic system by binding sodium dodecyl sulphate to peptides 507(1990)45

Modification of silica with glucose for the separation of proteins by high-performance liquid chromatography 508(1990)289

Binding capacities of hydroxyapatite for globular proteins 515(1990)193

High-performance liquid chromatography of proteins on a ceramic hydroxyapatite with volatile buffers 515(1990)521

Method for the characterization of stationary phases for the separation of proteins by high-performance liquid chromatography 537(1991)1

Chiral copper-chelate complexes alter selectivities in metal affinity protein partitioning 543(1991)345

Protein separation with aqueous-aqueous polymer systems by two types of counter-current chromatographs 550(1991)695

Myoinositol phosphates

High-performance reversed-phase ion-pair chromatographic study of myo-inositol phosphates. Separation of myo-inositol phosphates, some common nucleotides and sugar phosphates 523(1990)201

Myricetin

High-performance liquid chromatographic determination of five widespread flavonoid aglycones 508(1990)236

Myristyl alcohol

Long-chain fatty alcohol quantitation in subfemtomole amounts by gas chromatography-negative ion chemical ionization mass

spectrometry. Application to long-chain acyl coenzyme A measurement 509(1990)325

Myristylated peptide, synthetic

Purification of a synthetic myristylated peptide by counter-current chromatography 538(1991)141

N

N-0437

Reversed-phase liquid chromatographic method with amperometric detection for the determination of the dopamine agonist 2-(N-propyl-N-2-thienylethylamino)-5-hydroxytetralin (N-0437) in human plasma and urine 528(1990)464

Nacardipine

Optical resolution of dihydropyridine enantiomers by high-performance liquid chromatography using phenylcarbamates of polysaccharides as a chiral stationary phase 513(1990)375

NAD glycohydrolase

Purification of NAD glycohydrolase from *Neurospora crassa* conidia by a polyclonal immunoabsorbent 539(1991)517

NADH

Chromatographic behaviour of cyclodextrin complexes of NADH and NADP 508(1990)127

Nadolol

Liquid and high-pressure carbon dioxide chromatography of β -blockers. Resolution of the enantiomers of nadolol 539(1991)55

NADP

Chromatographic behaviour of cyclodextrin complexes of NADH and NADP 508(1990)127

Naftopidil

High-performance liquid chromatography of naftopidil, a novel antihypertensive drug, and two metabolites in human plasma 534(1990)247

Nalidixic acid

Simultaneous determination of residual synthetic antibacterials in fish by high-performance liquid chromatography 538(1991)484

Naphthalene-2,3-dialdehyde

Naphthalene- and anthracene-2,3-dialdehyde as precolumn labelling reagents for primary amines using reversed- and normal-phase liquid chromatography with peroxyoxalate chemiluminescence detection 511(1990)155

Naphthalenes

Investigation of the reversed-phase high-performance liquid chromatographic ligand-exchange retention mechanism on a triamine stationary phase 513(1990)145

Solubility parameter treatment for the characterization of the stationary phase in the reversed-phase chromatography of benzene derivatives 515(1990)3

Application of substituted liquid crystals as stationary phases in gas-liquid chromatography for the separation of mono- and dimethyl naphthalenes 549(1991)423

Naphthalene-2-sulphonate

Retention prediction based on the electrostatic model of reversed-phase ion-pair high-performance liquid chromatography: effect of pairing ion concentration 535(1990)181

Gradient elution methods for predicting isocratic conditions (Review) 550(1991)425

N-[(2-Naphthalene)sulphonyl]propyl isocyanate

Liquid chromatographic evaluation of chiral derivatizing reagents for the resolution of amine and alcohol enantiomers 508(1990)220

2-(2,3-Naphthalimino)ethyl trifluoromethane-sulphate

2-(2,3-Naphthalimino)ethyl trifluoromethanesulphonate as a highly reactive ultraviolet and fluorescent labelling agent for the liquid chromatographic determination of carboxylic acids 508(1990)133

Naphthenes

On-line chromatographic analyser for determining the composition and octane number of reforming process effluents 509(1990)47

1-Naphthol

Determination of carbaryl and 1-naphthol in English apples and strawberries by combined gas

chromatography–fluorescence spectrometry
547(1991)345

2-Naphthol

Reversed-phase chromatographic separation of selected hydroxyl aromatics with β -cyclodextrin as a mobile phase additive 514(1990)19

1-Naphthol-4-sulphonic acid, sodium salt

High-pressure and supercritical capillary electrophoresis 517(1990)573

Naphthylaminesulphonic acids

Separation of phenylamine- and naphthylaminesulphonic acids by reversed-phase high-performance liquid chromatography 523(1990)247

Effect of organic modifier concentration on retention in reversed-phase ion-pair liquid chromatography 545(1991)59

Naproxen

Determination of non-steroidal anti-inflammatory analgesics in solid dosage forms by high-performance liquid chromatography on underivatized silica with aqueous mobile phase 504(1990)381

Liquid chromatography with amperometric detection for the determination of non-steroidal anti-inflammatory drugs in plasma 533(1990)125

Chromatographic separation of the optical isomers of naproxen 543(1991)355

Naproxen chloride

Sensitive analysis of phospholipid molecular species by high-performance liquid chromatography using fluorescent naproxen derivatives of diacylglycerols 518(1990)157

Narcotine

Separation of opium alkaloids by thin-layer chromatography combined with flame ionization detection using the peak pyrolysis method 547(1991)538

Naringenin

Improved chiral stationary phase based on cellulose triacetate supported on non-macroporous silica gel diol for the high-performance liquid chromatographic separation of racemic flavanones and diastereomeric flavanone glycosides 502(1990)287

Assay of hydroxyfarrerol in biological fluids 535(1990)255

Naringenin-4'-glucoside

High-performance liquid chromatographic determination of flavonoid glucosides from *Helichrysum italicum* 537(1991)449

Navelbine

Determination of navelbine and desacetylnavelbine in biological fluids by high-performance liquid chromatography 525(1990)225

High-performance liquid chromatographic determination of navelbine in human plasma and urine 528(1990)258

Nefopam

Determination of plasma nefopam by liquid chromatography and electrochemical detection 526(1990)159

Neodymium

Peak interactions under concave isotherm conditions in preparative ion chromatography 546(1991)27

Neopatulin

Applications of high-performance liquid chromatography to quantitation of metabolites and enzymes of the patulin pathway from *Penicillium patulum* 513(1990)237

Neosaxitoxin

Analysis of paralytic shellfish poisons by capillary electrophoresis 542(1991)483

Nervonic acid

Nervonic acid *versus* tricosanoic acid as internal standards in quantitative gas chromatographic analyses of fish oil longer-chain *n*-3 polyunsaturated fatty acid methyl esters 533(1990)1

Netilmicin

High-performance liquid chromatographic determination of isepamicin in plasma, urine and dialysate 526(1990)487

Neuramide

High-performance liquid chromatographic approach to the separation of antiviral and immunostimulant fractions in Neuramide 512(1990)123

High-performance liquid chromatographic purification of antiviral components in Neuramide 548(1991)289

Neuraminidase

Characteristics of ovomucoid-conjugated columns in the direct liquid chromatographic resolution of racemic compounds 511(1990)89

Neurochemicals

Determination of neurochemicals in biological fluids by using an automated high-performance liquid chromatographic system with a coulometric array detector 536(1991)229

Neurofilament protein

Reversed-phase high-performance liquid chromatographic separation of synthetic phosphopeptide isomers 512(1990)265

Neurohormones

Rapid isolation of a neurohormone from mosquito heads by high-performance liquid chromatography 542(1991)508

Neurolite

Separation and detection of oxidation products in Neurolite raw material 550(1991)549

Neuropeptides

see also Endorphins and Enkephalins

Combination of positron emission tomography with liquid chromatography in neuropharmacologic research 507(1990)303

Capillary zone electrophoresis-mass spectrometry using a coaxial continuous-flow fast atom bombardment interface 516(1990)167

Proenkephalin A and proopiomelanocortin peptides in human cerebrospinal fluid 530(1990)235

Fingerprinting of molecular components in individual human cerebrospinal fluid samples with a new micropurification system 548(1991)311

Neurosporene

High-performance liquid chromatography of *cis-trans* isomers of neurosporene: discrimination of *cis* and *trans* configurations at the end of an open conjugated chain 519(1990)221

Neurotoxins

Studies on the uptake of N-methylisoquinolinium ion into rat striatal slices using high-performance liquid chromatography with fluorimetric detection 503(1990)189

Confirmation of domoic acid in shellfish using butyl isothiocyanate and reversed-phase liquid chromatography 550(1991)595

Neutral drugs

Solid-phase extraction for the screening of acidic, neutral and basic drugs in plasma using a single-column procedure on Bond Elut Certify 529(1990)161

Niacinamide

Use of column switching for the determination of niacinamide in compound feed 502(1990)79

Ion chromatography for the analysis of household consumer products 546(1991)351

Nicardipine

Simultaneous microdetermination of nicardipine and its pyridine metabolite in body fluids by capillary column gas chromatography with electron-capture detection 530(1990)438

High-performance liquid chromatographic method for the measurement of nicardipine in plasma or serum 530(1990)463

Nicardipine, pyridine metabolite

Simultaneous microdetermination of nicardipine and its pyridine metabolite in body fluids by capillary column gas chromatography with electron-capture detection 530(1990)438

Nickel

High-performance liquid chromatographic study of ligand-exchange reactions of fluorinated metal β -diketone chelates 517(1990)185

Preconcentration of divalent trace metals on chelating silicas followed by on-line ion chromatography 541(1991)443

Charged surface and mass transfer in dynamic ion exchangers 546(1991)17

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction 546(1991)251

Nickel acetylacetonates

Chemically bonded chelates as selective complexing sorbents for gas chromatography. I. Alkenes 547(1991)259

Nickel complexes

Paper chromatographic studies of metal complexes. II. Comparison of square planar and octahedral complexes 504(1990)464

Nicorandil

Determination of nicorandil in plasma using high-performance liquid chromatography with photoconductivity and ultraviolet detection. Application to pre-clinical pharmacokinetics in beagle dogs 525(1990)151

Rapid and simple detection of nicorandil in rat plasma using a solid-phase extraction column 528(1990)509

***Nicotiana tabacum* pigments**

Rapid extraction and high speed liquid chromatography of *Nicotiana tabacum* leaf pigments 502(1990)431

Nicotinamide

Capillary tube isotachophoretic separation of niacin derivatives 521(1990)158

Nicotine

Nicotine metabolites in the urine of smokers 525(1990)193

Determination of nornicotine in smokers' urine by gas chromatography following reductive alkylation to N'-propylnornicotine 525(1990)349

On-line determination of the optical purity of nicotine 543(1991)129

Nicotine compounds

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

Nicotine-N-oxide

Determination of nornicotine in smokers' urine by gas chromatography following reductive alkylation to N'-propylnornicotine 525(1990)349

Nicotinic acid

Use of column switching for the determination of niacinamide in compound feed 502(1990)79

Ion chromatography for the analysis of household consumer products 546(1991)351

Nifedipine

Photodegradation of nifedipine relative to nitrendipine evaluated by liquid and gas chromatography 529(1990)175

Niflumic acid

High-performance liquid chromatographic determination of niflumic acid in human plasma and urine 533(1990)271

Nifurstyrenate

Simultaneous determination of residual synthetic antibacterials in fish by high-performance liquid chromatography 538(1991)484

Nigericin

Separation and determination of polyether carboxylic antibiotics from *Streptomyces hygroscopicus* NRRL B 1865 by thin-layer chromatography with flame ionization detection 547(1991)411

Nilvadipine

Optical resolution of dihydropyridine enantiomers by high-performance liquid chromatography using phenylcarbamates of polysaccharides as a chiral stationary phase 513(1990)375

Nimodipine

Optical resolution of dihydropyridine enantiomers by high-performance liquid chromatography using phenylcarbamates of polysaccharides as a chiral stationary phase 513(1990)375

Determination of the calcium antagonist nimodipine in plasma by capillary gas chromatography and nitrogen detection 533(1990)224

Nimustine hydrochloride

Rapid and simple method for the determination of nimustine hydrochloride in human blood and brain by high-performance liquid chromatography 526(1990)507

Nitrate

Simultaneous determination of nitrites, nitrates and amines by ion-interaction reversed-phase high-performance liquid chromatography. Application to lagoon water 509(1990)147

Comparative analysis of organic acids located on the surface of natural building stones by high-performance liquid, gas and ion chromatography 514(1990)241

Ion chromatography of nitrite, bromide and nitrate ions in brine samples using a chloride-form anion-exchange resin column 514(1990)355

Analysis of atmospheric precipitation by reversed-phase ion-pair chromatography 514(1990)362

Use of cyclodextrins in the isotachophoretic determination of various inorganic anions 518(1990)189

Ion-exchange separation of inorganic anions on a HEMA 1000 Q-L column 520(1990)349

High-performance liquid chromatography on silica dynamically modified with hydrazinium derivatives 521(1990)19

Alkanesulphonates as eluents for the determination of nitrate and nitrite by ion chromatography with direct UV detection 521(1990)53

Factors affecting selectivity in micelle exclusion chromatography of inorganic anions 538(1991)341

Anion-exchange chromatography on selected silica-based reversed-phase high-performance liquid chromatographic columns 544(1991)99

Sample preparation for ion chromatography by solid-phase extraction 546(1991)61

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Determination by ion chromatography and spectrophotometry of the effects of preservation on nitrite and nitrate 546(1991)341

Application of ion chromatography to failure analysis of electronics packaging 546(1991)347

Analysis of anion constituents of urine by inorganic capillary electrophoresis 546(1991)459

Nitrendipine

Optical resolution of dihydropyridine enantiomers by high-performance liquid chromatography using phenylcarbamates of polysaccharides as a chiral stationary phase 513(1990)375

Photodegradation of nifedipine relative to nitrendipine evaluated by liquid and gas chromatography 529(1990)175

High-performance liquid chromatography of the metabolites of nitrendipine and investigation into the metabolic pathways of this dihydropyridine 530(1990)206

Nitrendipine-pyridine

High-performance liquid chromatography of the

metabolites of nitrendipine and investigation into the metabolic pathways of this dihydropyridine 530(1990)206

Nitric oxide

High-performance liquid chromatographic analysis of the unusual pathway of oxidation of L-arginine to citrulline and nitric oxide in mammalian cells 539(1991)433

Nitriles

Gas chromatography of the atmosphere of Titan. II. Analysis of low-molecular-weight hydrocarbons and nitriles with a potassium chloride-deactivated alumina PLOT capillary column 514(1990)65

Nitriлотriacetate

Ionophoretic studies on mixed complexes. Metal-nitriлотriacetate-penicillamine system 542(1991)537

Nitriлотriacetic acid

Determination of free nitriлотriacetic acid in environmental water samples by ion chromatography with potentiometric and amperometric detection with a copper electrode 546(1991)311

Nitrite

Simultaneous gas chromatographic determination of cyanide, iodide, nitrite, sulphide and thiocyanate anions by derivatization with pentafluorobenzyl bromide and using a kryptand as phase-transfer catalyst 502(1990)257

Analysis of nitrogen dioxide in ambient air by ion-exclusion chromatography with electrochemical detection 503(1990)466

Simultaneous determination of nitrites, nitrates and amines by ion-interaction reversed-phase high-performance liquid chromatography. Application to lagoon water 509(1990)147

Comparative analysis of organic acids located on the surface of natural building stones by high-performance liquid, gas and ion chromatography 514(1990)241

Ion chromatography of nitrite, bromide and nitrate ions in brine samples using a chloride-form anion-exchange resin column 514(1990)355

Analysis of atmospheric precipitation by reversed-phase ion-pair chromatography 514(1990)362

Use of cyclodextrins in the isotachophoretic determination of various inorganic anions 518(1990)189

High-performance liquid chromatography on silica dynamically modified with hydrazinium derivatives 521(1990)19

Alkanesulphonates as eluents for the determination of nitrate and nitrite by ion chromatography with direct UV detection 521(1990)53

Factors affecting selectivity in micelle exclusion chromatography of inorganic anions 538(1991)341

Sample preparation for ion chromatography by solid-phase extraction 546(1991)61

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Determination by ion chromatography and spectrophotometry of the effects of preservation on nitrite and nitrate 546(1991)341

Application of ion chromatography to failure analysis of electronics packaging 546(1991)347

Nitroalkanes

Analysis of decomposition products of alkyl nitronic acids by reversed-phase high-performance liquid chromatography 505(1990)402

Comparison of retention index scales based on alkyl aryl ketones, alkan-2-ones and 1-nitroalkanes for polar drugs on reversed-phase high-performance liquid chromatography 537(1991)51

2-Nitroaniline

Gas chromatographic and mass spectrometric determination of nitroaromatics in water 518(1990)21

***p*-Nitroaniline**

Toroidal coil centrifugal partition chromatography, a method for measuring partition coefficients 538(1991)119

Nitroaromatic compounds

Gas chromatographic and mass spectrometric determination of nitroaromatics in water 518(1990)21

Nitrobenzenes

Characterization of an adamantyl-modified silica used as a stationary phase in high-performance liquid chromatography 514(1990)11

Gas chromatographic and mass spectrometric determination of nitroaromatics in water 518(1990)21

Nitrogen, total

Determination of total nitrogen in food, environmental and other samples by ion chromatography after Kjeldahl digestion 546(1991)405

Nitrogen dioxide

Analysis of nitrogen dioxide in ambient air by ion-exclusion chromatography with electrochemical detection 503(1990)466

Nitronates

Analysis of decomposition products of alkyl nitronic acids by reversed-phase high-performance liquid chromatography 505(1990)402

Nitronic acids

Analysis of decomposition products of alkyl nitronic acids by reversed-phase high-performance liquid chromatography 505(1990)402

***p*-Nitrophenol glucuronide**

High-performance liquid chromatographic analysis of *p*-nitrophenol and its conjugates in biological samples 532(1990)285

Nitrophenols

Reversed-phase liquid chromatography of polar benzene derivatives on poly(vinylbenzo-18-crown-6)-immobilized silica as a stationary phase 522(1990)107

High-performance liquid chromatographic analysis of *p*-nitrophenol and its conjugates in biological samples 532(1990)285

Determination of phenol, *m*-, *o*- and *p*-cresol, *p*-aminophenol and *p*-nitrophenol in urine by high-performance liquid chromatography 535(1990)311

Sensitivity of electrokinetic detection of acidic aromatic nitro derivatives using column as a detector 541(1991)257

Gas chromatographic determination of nitrophenols in atmospheric liquid water and airborne particulates 549(1991)313

Computer-assisted sample clean-up in liquid chromatography from thin-layer chromatographic data 550(1991)657

***p*-Nitrophenol sulphate**

High-performance liquid chromatographic analysis of *p*-nitrophenol and its conjugates in biological samples 532(1990)285

5-(*p*-Nitrophenyl)-2-furoic acid

Determination of a dantrolene metabolite, 5-(*p*-nitrophenyl)-2-furoic acid, in plasma and urine by high-performance liquid chromatography 526(1990)575

2-Nitrophenylhydrazides

Liquid chromatographic determination of free and total fatty acids in milk and milk products as their 2-nitrophenylhydrazides 523(1990)235

***p*-Nitrophenylhydrazine**

High-performance liquid chromatographic determination of malonaldehyde using *p*-nitrophenylhydrazine as a derivatizing reagent 514(1990)29

4-Nitrophenylisothiocyanate

Analysis of amino acids by liquid chromatography after pre-column derivatization with 4-nitrophenylisothiocyanate 512(1990)283

N-(3-Nitro-4-quinoline)morpholino-4-carboxamidine

Determination of N-(3-nitro-4-quinoline)-morpholino-4-carboxamidine in plasma by high-performance liquid chromatography 520(1990)379

Nitroso compounds

Trifluoroacetic anhydride-sodium iodide as a reagent for the selective detection of nitroso compounds by thin-layer chromatography 516(1990)467

N-Nitrosodimethylamine

Determination of N-nitrosodimethylamine in fish products using gas chromatography with nitrogen-phosphorus detection 508(1990)357

Nitrotoluene

Poly(styrene-dimethylsiloxane) block copolymer as a stationary phase for capillary gas chromatography 511(1990)390

Nivalenol

Heptafluorobutyrylation of trichothecenes using a solid-phase catalyst 511(1990)384

Nizatidine

High-performance liquid chromatographic assay for nizatidine, a new H₂ blocker, in human plasma and urine using disposable solid-phase extraction columns 525(1990)490

Determination of nizatidine and two of its main metabolites in human serum using high-performance liquid chromatography 529(1990)369

Nizatidine sulphoxide

Determination of nizatidine and two of its main metabolites in human serum using high-performance liquid chromatography 529(1990)369

Nodularin

Internal surface reversed-phase high-performance liquid chromatographic separation of the cyanobacterial peptide toxins microcystin-LA, -LR, -YR, -RR and nodularin 509(1990)390

Nomifensine

Determination of nomifensine in rat brain by high-performance liquid chromatography with fluorescence detection 525(1990)234

Nonanal

Renaissance of gas chromatography-time-of-flight mass spectrometry. Meeting the challenge of capillary columns with a beam deflection instrument and time array detection 518(1990)283

Nopalinic acid

High-performance liquid chromatographic analysis of octopinic acid, lysopine and nopalinic acid as sensitive indicators of *Agrobacterium*-induced crown gall tumours 514(1990)343

Noradrenaline

Determination of free catecholamines in human urine by direct injection of urine into a liquid chromatographic column-switching system with fluorimetric detection 515(1990)435

Determination of urinary free noradrenaline by reversed-phase high-performance liquid chromatography with on-line extraction and fluorescence derivatization 515(1990)621

Simultaneous high-performance liquid chromatographic determination of norepinephrine, serotonin, acetylcholine and their metabolites in the cerebrospinal fluid of anaesthetized normotensive rats 526(1990)1

Fully automated high-performance liquid chromatographic assay for the analysis of free catecholamines in urine 530(1990)11

Simple approach for reversal of the epinephrine-norepinephrine elution order in ion-pair reversed-phase liquid chromatography 532(1990)394

Determination of plasma catecholamines via condensation with diphenylethylenediamine: simplification of the procedure 533(1990)166

Direct enantiomeric separation of β -amino acids and β -amino alcohols by ligand-exchange chromatography 540(1991)169

Detection of octopamine in an insect ganglion by high-performance liquid chromatography-native fluorescence 549(1991)400

Norcocaine

Microassay for the simultaneous determination of cocaine, norcocaine, benzoylecgonine and benzoynorecgonine by high-performance liquid chromatography 525(1990)113

Determination of cocaine and norcocaine in plasma and cell cultures using high-performance liquid chromatography 526(1990)447

Simultaneous determination of cocaine and its metabolites with caffeine in rat serum microsomes by high-performance liquid chromatography 532(1990)95

Nordoxepin

Separation of seven tricyclic antidepressants using capillary electrophoresis 549(1991)375

Norepinephrine

see Noradrenaline

Norfloxacin

High-performance liquid chromatographic determination of several quinolone antibacterials in medicated fish feed 514(1990)348

Norharman

Determination of β -carbolines in foodstuffs by high-performance liquid chromatography and high-performance liquid chromatography-mass spectrometry 538(1991)331

Norhopane

Tandem mass spectrometry — an additional dimension of chromatography for the determination of biomarkers in fossil fuels (Review) 550(1991)193

Norleucine

Enantiomeric resolution by micellar electrokinetic chromatography with chiral surfactants 515(1990)221

Normorphine

Fast reliable assay for morphine and its metabolites using high-performance liquid chromatography and native fluorescence detection 525(1990)379

Nornicotine

Determination of nornicotine in smokers' urine by gas chromatography following reductive alkylation to N'-propylnornicotine 525(1990)349

Nor-nitrogen mustard

Determination of nor-nitrogen mustard hydrochloride using gas chromatography with flame ionization detection 547(1991)501

19-Nortestosterone

Packed-column supercritical fluid chromatography-mass spectrometry and supercritical fluid chromatography-tandem mass spectrometry with ionization at atmospheric pressure 511(1990)257

Determination of 19-nortestosterone, testosterone and trenbolone by gas chromatography-negative-ion mass spectrometry after formation of the pentafluorobenzylcarboxymethoxime-trimethylsilyl derivatives 547(1991)325

Nortriptyline

Use of non-ionic and zwitterionic surfactants to enhance selectivity in high-performance capillary electrophoresis. An apparent micellar electrokinetic capillary chromatography mechanism 503(1990)449

Characterization of an internal-surface reversed-phase silica support for liquid chromatography and its application to assays of drugs in serum 515(1990)59

Controlling the retention of clopenthixol and other basic drug substances by reversed-phase ion-pair chromatography on bonded-phase materials using two counter-ions of opposite charge 523(1990)217

Rapid and simple high-performance liquid chromatographic determination of tricyclic antidepressants for routine and emergency serum analysis 536(1991)319

Separation of seven tricyclic antidepressants using capillary electrophoresis 549(1991)375

Norvaline

Enantiomeric resolution by micellar electrokinetic chromatography with chiral surfactants 515(1990)221

Norverapamil

Effects of the pre-column in automated on-column injection capillary gas chromatography 518(1990)307

Nucleic acids

see also DNA and RNA

Application of low-angle laser light scattering detection in the field of biochemistry. Review of recent progress 506(1990)409

Rapid high-performance liquid chromatography of nucleic acids with polystyrene-based micropellicular anion exchangers 508(1990)61

New family of high-resolution ion exchangers for protein and nucleic acid purifications from laboratory to process scales 535(1990)127

Enrichment of biologically active U1 small nuclear RNAs by ion-exchange high-performance liquid chromatography 547(1991)462

Nucleobases

Chromatographic characteristics of nucleic acid components on vinyl alcohol copolymer gel columns 506(1990)145

Improved sample preparation method for high-performance liquid chromatography of deoxyribonucleoside triphosphates from cell culture extracts 508(1990)75

Ion-pair high-performance liquid chromatography of purine compounds in the small intestinal mucosa of children with coeliac disease 520(1990)419

Chromatographic behaviour of cyclodextrin complexes of nucleotides, nucleosides and their bases 523(1990)293

Determination of sixteen nucleotides, nucleosides and bases using high-performance liquid chromatography and its application to the study of purine metabolism in hearts for transplantation 527(1990)414

Determination of purine compounds by ion-pair microbore high-performance liquid chromatography: application to ischemic rat kidney mitochondria 527(1990)498

Determination of purine nucleosides and their bases by high-performance liquid chromatography using co-immobilized enzyme reactors 528(1990)91

Purification of DNA and group separation of normal and modified DNA components by size-exclusion chromatography 539(1991)373

Relationship between retention parameters in reversed-phase high-performance liquid chromatography and antitumour activity of some pyrimidine bases and nucleosides 547(1991)161

Nucleophiles

Solid-phase reagent containing the 3,5-dinitrophenyl tag for the improved derivatization of chiral and achiral amines, amino alcohols and amino acids in high-performance liquid chromatography with ultraviolet detection 537(1991)123

Nucleophiles, weak

Polymeric dimethylaminopyridinium reagents for derivatization of weak nucleophiles in high-performance liquid chromatography-ultraviolet/fluorescence detection 515(1990)337

Nucleoside phosphates

Fundamental study of hydroxyapatite high-performance liquid chromatography. II. Experimental analysis on the basis of the general theory of gradient chromatography 515(1990)91

Nucleoside H-phosphonates

Rapid and sensitive determination of nucleoside H-phosphonates and inorganic H-phosphonates by high-performance liquid chromatography coupled with flow-injection analysis 507(1990)103

Nucleosides

Application of chromatographic retention data in an investigation of a quantitative structure-nucleotide incorporation rate relationship 506(1990)35

Partition coefficients and capacity factors of some nucleoside analogues 506(1990)119

Chromatographic characteristics of nucleic acid components on vinyl alcohol copolymer gel columns 506(1990)145

- Determination of pseudouridine in human urine and serum by high-performance liquid chromatography with post-column fluorescence derivatization 515(1990)495
- Isolation and identification of urinary nucleosides. Applications of high-performance liquid chromatographic methods to the synthesis of 5'-deoxyxanthosine and the simultaneous determination of 5,6-dihydrouridine and pseudouridine 515(1990)537
- Ion-pair high-performance liquid chromatography of purine compounds in the small intestinal mucosa of children with coeliac disease 520(1990)419
- Gas-phase synthesis, properties and some applications of acylamide stationary phases for high-performance liquid chromatography 521(1990)29
- Frontal chromatographic techniques in preparative chromatography 523(1990)11
- Chromatographic behaviour of cyclodextrin complexes of nucleotides, nucleosides and their bases 523(1990)293
- Determination of sixteen nucleotides, nucleosides and bases using high-performance liquid chromatography and its application to the study of purine metabolism in hearts for transplantation 527(1990)414
- Determination of purine compounds by ion-pair microbore high-performance liquid chromatography: application to ischemic rat kidney mitochondria 527(1990)498
- Determination of purine nucleosides and their bases by high-performance liquid chromatography using co-immobilized enzyme reactors 528(1990)91
- High-performance liquid chromatographic method for the analysis of 2',3'-dideoxycytidine in human plasma 532(1990)442
- Quantitation of didanosine in human plasma and urine by high-performance liquid chromatography 533(1990)282
- Purification of DNA and group separation of normal and modified DNA components by size-exclusion chromatography 539(1991)373
- Anomalous retention behaviour of some synthetic nucleosides on aluminium oxide layers 543(1991)425
- Relationship between retention parameters in reversed-phase high-performance liquid chromatography and antitumour activity of some pyrimidine bases and nucleosides 547(1991)161
- Comparative investigation of the retention behaviour of nucleoside derivatives on alumina stationary phases in thin-layer chromatography and high-performance liquid chromatography 550(1991)667
- Nucleotides**
- Feasibility of capillary zone electrophoresis with suppression of electroosmotic flow in completely closed systems 503(1990)245
- Application of chromatographic retention data in an investigation of a quantitative structure-nucleotide incorporation rate relationship 506(1990)35
- Chromatographic characteristics of nucleic acid components on vinyl alcohol copolymer gel columns 506(1990)145
- Analysis of oligonucleotides by capillary gel electrophoresis 507(1990)113
- Interrelation between nucleotide degradation and aldehyde formation in red blood cells. Influence of xanthine oxidase on metabolism: an application of nucleotide and aldehyde analyses by high-performance liquid chromatography 507(1990)311
- Design and applications of biomimetic anthraquinone dyes. III. Anthraquinone-immobilised C.I. Reactive Blue 2 analogues and their interaction with horse liver alcohol dehydrogenase and other adenine nucleotide-binding proteins 508(1990)109
- Characterization of temperature-sensitive cytidine triphosphate synthase mutations in bacteria by high-performance liquid chromatography 512(1990)403
- Preparation of ethylenediaminephosphoramidates of nucleotides and derivatization with fluorescein isothiocyanate 512(1990)409
- Convenient purification of tritylated and detritylated oligonucleotides up to 100-mer 512(1990)415

Reversed-phase high-performance liquid chromatographic study of the formation of complexes of nucleotides and oligonucleotides with Lu(III) 516(1990)456

Aldehyde and nucleotide separations by high-performance liquid chromatography. Application to phenylhydrazine-induced damage of erythrocytes and reticulocytes 520(1990)411

Ion-pair high-performance liquid chromatography of purine compounds in the small intestinal mucosa of children with coeliac disease 520(1990)419

Gas-phase synthesis, properties and some applications of acylamide stationary phases for high-performance liquid chromatography 521(1990)29

High-performance reversed-phase ion-pair chromatographic study of myo-inositol phosphates. Separation of myo-inositol phosphates, some common nucleotides and sugar phosphates 523(1990)201

Chromatographic behaviour of cyclodextrin complexes of nucleotides, nucleosides and their bases 523(1990)293

Methods for the isolation and detection of etheno adducts in nucleotide pools in vivo following exposure to ethyl carbamate 526(1990)407

Application and validation of an ion-exchange high-performance liquid chromatographic method for measuring adenine nucleotides, creatine and creatine phosphate in mouse brain 527(1990)31

Determination of sixteen nucleotides, nucleosides and bases using high-performance liquid chromatography and its application to the study of purine metabolism in hearts for transplantation 527(1990)414

Determination of purine compounds by ion-pair microbore high-performance liquid chromatography: application to ischemic rat kidney mitochondria 527(1990)498

Measurement of adenine nucleotide levels with an adenine analyser as an index of freshness of porgy 528(1990)305

Measurement of hypoxanthine and xanthine in late-gestation human amniotic fluid by reversed-phase high-performance liquid chromatography with photodiode-array detection 533(1990)73

High-performance liquid chromatography of deoxyribonucleoside di- and triphosphates in tomato roots 536(1991)237

Purification of DNA and group separation of normal and modified DNA components by size-exclusion chromatography 539(1991)373

Model studies on iron(III) ion affinity chromatography. Interaction of immobilized metal ions with nucleotides 541(1991)333

Ion-exchange high-performance liquid chromatography of nucleotides and polypeptides on new types of ion-exchange sorbents, based on polystyrene-coated silicas 548(1991)207

High-performance displacement electrophoresis in 0.025- to 0.050-mm capillaries coated with a polymer to suppress adsorption and electroendosmosis 550(1991)811

O

Octanal

Analysis of packaged orange juice volatiles using headspace gas chromatography 540(1991)456

Octane

Sorption isotherms of organic vapours on Tenax 514(1990)279

Optimization study of octane-in-water emulsions by sedimentation field-flow fractionation 517(1990)333

Octopamine

Identification and quantitation of N-acetyl metabolites of biogenic amines in the thoracic nervous system of the locust, *Schistocerca gregaria*, by gas chromatography-negative-ion chemical ionisation mass spectrometry 532(1990)13

High-performance liquid chromatography of biogenic amines in the corpus cardiacum of the American cockroach, *Periplaneta americana* 539(1991)193

Detection of octopamine in an insect ganglion by high-performance liquid chromatography-native fluorescence 549(1991)400

Octopinic acid

High-performance liquid chromatographic analysis of octopinic acid, lysopine and nopalinic acid as sensitive indicators of *Agrobacterium*-induced crown gall tumours 514(1990)343

4-Octylbenzene sulphonic acid

Charged surface and mass transfer in dynamic ion exchangers 546(1991)17

Octyl dimethyl *p*-aminobenzoate

Determination of sunscreen compounds in topical sunscreen products 519(1990)117

Octylglucoside

Water-soluble proteins do not bind octyl glucoside as judged by molecular sieve chromatographic techniques 518(1990)111

Octyl methoxycinnamate

Determination of sunscreen compounds in topical sunscreen products 519(1990)117

Octyl salicylate

Determination of sunscreen compounds in topical sunscreen products 519(1990)117

Oestr...

see Estr...

Oils

Re-examination of the fatty acid composition of *Biota orientalis* seed oil by gas chromatography-mass spectrometry of the picolinyl ester derivatives 543(1991)257

Use of a liquid crystal stationary phase at temperatures below its melting point for the gas chromatographic study of some volatile oil constituents 547(1991)335

Oleananes

Tandem mass spectrometry —an additional dimension of chromatography for the determination of biomarkers in fossil fuels (Review) 550(1991)193

Olefins

On-line chromatographic analyser for determining the composition and octane number of reforming process effluents 509(1990)47

Chemically bonded chelates as selective complexing sorbents for gas chromatography. I. Alkenes 547(1991)259

Oleic acid

Identification of individual diacylglycerols by adsorption thin-layer chromatography of their coordination complexes 538(1991)373

Rapid and sensitive method for the quantitation of non-polar lipids by high-performance thin-layer chromatography and fluorodensitometry 549(1991)387

Oleyl alcohol

Long-chain fatty alcohol quantitation in subfemtomole amounts by gas chromatography-negative ion chemical ionization mass spectrometry. Application to long-chain acyl coenzyme A measurement 509(1990)325

Oligoguanylates

High-performance liquid chromatography of oligoguanylates at high pH 538(1991)474

Oligomers

Ion mobility detection of polydimethylsilicone oligomers following supercritical fluid chromatographic separation 505(1990)215

Chromatographic separation of surfactants: XII. Quantification of results in trial high-performance liquid chromatography of ethoxylated surfactants 509(1990)201

Theoretical aspects of the chromatographic analysis of heterogeneous polymers 511(1990)49

Separation and purification of oligonucleotides using a new bonded-phase packing material 545(1991)79

Multi-step procedure for the separation of vinyl chloride oligomers 550(1991)539

Oligonucleotides

Analysis of oligonucleotides by capillary gel electrophoresis 507(1990)113

Rapid high-performance liquid chromatography of nucleic acids with polystyrene-based micropellicular anion exchangers 508(1990)61

Analytical study of phosphorothioate analogues of oligodeoxynucleotides using high-performance liquid chromatography 509(1990)396

Convenient purification of tritylated and detritylated oligonucleotides up to 100-mer 512(1990)415

Rapid separation, quantitation and purification of products of polymerase chain reaction by liquid chromatography 512(1990)433

Separation and analysis of DNA sequence reaction products by capillary gel electrophoresis 516(1990)49

Reversed-phase high-performance liquid chromatographic study of the formation of complexes of nucleotides and oligonucleotides with Lu(III) 516(1990)456

High-performance liquid chromatographic analysis of phosphorothioate analogues of oligodeoxynucleotides in biological fluids 533(1990)133

Large-scale purification of haptenated oligonucleotides using high-performance liquid chromatography 536(1991)85

Use of the 4-methoxy-4'-octyloxytrityl group as an affinity handle for the purification of synthetic oligonucleotides 541(1991)341

Macroporous synthetic hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1991)249

Non-porous hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1989)257

Separation and purification of oligonucleotides using a new bonded-phase packing material 545(1991)79

High-performance liquid chromatography of synthetic oligonucleotides. A new affinity protecting group 549(1991)207

Oligooxyethylene derivatives

Topological indices as structural parameters. Structure-retention relationships for oxyethylene derivatives of alcohols, thioalcohols and alkylamines 547(1991)247

Oligooxyethylene glycol mono-(4-*tert*-octylphenyl) ethers

Degradation and analysis of oligooxyethylene glycol mono(4-*tert*-octylphenyl) ethers in the presence of acetyl chloride 502(1990)407

Oligopeptides

Electrochemical detection of oligopeptides through the precolumn formation of biuret complexes 542(1991)345

Oligosaccharides

Effect of chain length of oligosaccharide in high-performance affinity chromatography of a lectin on oligosaccharide-immobilized columns 502(1990)297

Preparative and analytical separation of oligosaccharides from κ -carrageenan 504(1990)369

Hydrazido-derivatized supports in affinity chromatography (Review) 510(1990)13

Oligosaccharide mapping of therapeutic glycoproteins by high-pH anion-exchange high-performance liquid chromatography 512(1990)149

Analysis of N- and O-glycosidically bound sialooligosaccharides in glycoproteins by high-performance liquid chromatography with pulsed amperometric detection 523(1990)189

Capillary zone electrophoresis of α_1 -acid glycoprotein fragments from trypsin and endoglycosidase digestions 536(1991)31

High-performance liquid chromatography for the assessment of glucoamylase, immobilized on metallic membranes 536(1991)107

Post-column oligosaccharide dehydrogenase reactor for coulometric detection of malto-oligosaccharides in a liquid chromatographic system 537(1991)443

Macroporous synthetic hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1991)249

Omega acid

Separation and identification of impurities in the dye intermediate 8-amino-1-naphthol-3,6-disulphonic acid (H-acid) by high-performance liquid chromatography 514(1990)330

Omeprazole

Resolution of the enantiomers of omeprazole and some of its analogues by liquid chromatography on a trisphenylcarbamoylecellulose-based stationary phase. The effect of the enantiomers of omeprazole on gastric glands 532(1990)305

Onapristone

Determination of onapristone and its N-desmethyl metabolite in human plasma or serum by high-performance liquid chromatography 532(1990)115

Opines

High-performance liquid chromatographic analysis of octopinic acid, lysopine and nopalinic acid as sensitive indicators of *Agrobacterium*-induced crown gall tumours 514(1990)343

Opium alkaloids

Separation of opium alkaloids by thin-layer chromatography combined with flame ionization detection using the peak pyrolysis method 547(1991)538

Organic acids

see also Carboxylic acids and Fatty acids

Feasibility of capillary zone electrophoresis with suppression of electroosmotic flow in completely closed systems 503(1990)245

Utilization of capillary isotachopheresis in the determination of organic acids in food 509(1990)283

Isotachopheretic separation of organic acids in biological fluids 516(1990)251

Simultaneous determination of organic acids and sugars in apples by gas-liquid chromatography 520(1990)201

Basic profiles of organic acids in urine 525(1990)1

Optimization of inorganic capillary electrophoresis for the analysis of anionic solutes in real samples 546(1991)411

Determination of organic acids in food samples by capillary electrophoresis 546(1991)423

Organic acids, non-volatile

Detection of non-volatile organic acids by head-space gas chromatography 532(1990)374

Organic anions

Simultaneous ion chromatography of inorganic anions together with some organic anions and alkaline earth metal cations using chelating agents as eluents 516(1990)383

Controlled changes of selectivity in the separation of ions by capillary electrophoresis 546(1991)445

Organic bases

Novel, highly deactivated reversed-phase for basic compounds 506(1990)357

Organic halides

Analysis of internal filling gas of small-sized halogen lamps by gas chromatography 520(1990)213

Organochlorine compounds

Gas chromatographic analysis and gas chromatographic-mass spectrometric identification of components in the cyclohexane-extractable fraction from contaminated sediment samples 508(1990)159

Behaviour of 23 persistent organochlorine compounds during sulphuric acid clean-up on a solid-matrix column 513(1990)333

Multiple-development high-performance thin-layer chromatography of organochlorine pesticides 545(1991)214

Organomercury compounds

Evaluation of an alternating current plasma emission detector for high-performance liquid chromatography 513(1990)159

Organometallic compounds

High-performance liquid chromatographic separation of heterometallic 1,1'-bis(diphenylphosphino)ferrocene-substituted metal carbonyls 538(1991)492

High-performance liquid chromatographic determination of optical purity of planar chiral organometallic compounds resolved by enzymic transformations 542(1991)129

Organophosphates

Thermal desorption-gas chromatography of some organophosphates and S-mustard after trapping on Tenax 514(1990)273

Organophosphorus compounds

High-performance liquid chromatographic separation and determination of quinalphos in technical and commercial formulations 502(1990)208

Chromatographic analysis of chemical warfare agents (Review) 503(1990)293

Organotin compounds

Liquid chromatography of organotin compounds on cyanopropyl silica gel 507(1990)427

Gas chromatographic determination of airborne dialkyltin dichlorides as hydride derivatives 523(1990)273

Ormetoprim

High-performance liquid chromatographic analysis of Romet-30® in salmon following administration of medicated feed 518(1990)179

Ornidazole

Determination of ornidazole and its main metabolites in biological fluids 534(1990)233

Ornipressin

Animal test or chromatography? Validated high-performance liquid chromatographic assay as an alternative to the biological assay for ornipressin 548(1991)335

Ornithine

Identification of ferrioxamines by high-performance liquid chromatography and diode-array detection 513(1990)255

Orotic acid

Determination of orotic acid in urine and serum by isotachopheretic analysis 532(1990)144

Orthophosphate

Use of field-flow fractionation to study pollutant-colloid interactions 517(1990)435

Osmium carbonyl clusters

High-performance liquid chromatography of substituted trinuclear osmium carbonyl clusters, $\text{Os}_3(\text{CO})_{12-n}[\text{P}(\text{C}_6\text{F}_5)_3]_n$ ($n=0, 1, 2$) 537(1991)475

Osmolytes, stabilizing

Behaviour of amino acids in gel permeation chromatography. Correlation with the effect of Hofmeister solutes on the conformational stability of macromolecules 510(1990)41

Ovalbumin

Aluminum ion mediated stabilization of silica-based anion-exchange packings to caustic regenerants 503(1990)385

High-performance liquid chromatography of amino acids, peptides and proteins. XCVII. The influence of the gradient elution mode and displacer salt type on the retention properties of closely related protein variants separated by high-performance anion-exchange chromatography 506(1990)17

Application of low-angle laser light scattering detection in the field of biochemistry. Review of recent progress 506(1990)409

Modification of silica with glucose for the separation of proteins by high-performance liquid chromatography 508(1990)289

Use of the sodium salt of poly(vinylsulfonic acid) as a low-molecular-weight displacer for protein separations by ion-exchange displacement chromatography 519(1990)87

Effect of sodium dodecyl sulphate in protein samples on separation with free capillary zone electrophoresis 545(1991)397

Protein separation with aqueous-aqueous polymer systems by two types of counter-current chromatographs 550(1991)695

Ovomucoid

Characteristics of ovomucoid-conjugated columns in the direct liquid chromatographic resolution of racemic compounds 511(1990)89

Oxalate

Ion chromatographic determination of plasma oxalate in healthy subjects, in patients with chronic renal failure and in cases of hyperoxaluric syndromes 511(1990)223

Rapid determination of urinary oxalate by high-performance liquid chromatography 529(1990)402

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Analysis of anion constituents of urine by inorganic capillary electrophoresis 546(1991)459

Oxalic acid

Separation of anionic and cationic compounds of biomedical interest by high-performance liquid chromatography on porous graphitic carbon 515(1990)183

Oxatomide

Rapid determination of serum oxatomide levels with on-line precolumn solid-phase extraction 530(1990)469

Oxazolam

Collection of analytical data for benzodiazepines and benzophenones. Appendix 538(1991)277

Oxazolones

Chromatographic behaviour of diastereoisomers. X. Thin-layer chromatographic retentions on silica of some (*E*)- and (*Z*)-oxazolones and related cinnamates as a function of mobile phase effects or Hammett constants 545(1991)161

Oxcarbazepine

Simple and rapid micro-analytical high-performance liquid chromatographic technique for the assay of oxcarbazepine and its primary active metabolite 10-hydroxycarbazepine 528(1990)473

Oximes

Gas chromatographic analyses of hydroxyoxime extractants of metals and their intermediates. I. Alkylsilyl aldehyde oximes 503(1990)442

Determination of the oximes 2-hydroxyimino-methyl-3-methyl-1-[2-(3-methyl-3-nitrobutyloxy-methyl)imidazolium chloride and 1-[1-(3-butynyl-oxymethyl)]-2-hydroxyiminomethyl-3-methyl-imidazolium chloride in plasma by high-performance liquid chromatography 527(1990)361

High-performance liquid chromatographic analysis of imidazolium and pyridinium oximes in plasma and urine 527(1990)371

Oxiracetam

Direct chromatographic separation of the enantiomers of oxiracetam 508(1990)208

Oxolinic acid

Analysis of oxolinic acid in fish by high-performance liquid chromatography 530(1990)75

Simple and rapid method for the determination of flumequine and oxolinic acid in salmon (*Salmo salar*) plasma by high-performance liquid chromatography and fluorescence detection 530(1990)452

Automated column-switching high-performance liquid chromatographic determination of flumequine and oxolinic acid in extracts from fish 532(1990)363

Gas chromatographic-mass spectrometric determination of oxolinic acid in fish using selected ion monitoring 538(1991)259

Simultaneous determination of residual synthetic antibacterials in fish by high-performance liquid chromatography 538(1991)484

4-Oxopyridopyrimidine

Correlation between structure and gas chromatographic behaviour of nitrogen-containing heterocyclic compounds. I. Methyl substitution of pyridopyrimidine derivatives 537(1991)365

Oxprenolol

Separation of the enantiomers of β -receptor blocking agents and other cationic drugs using a CHIRAL-AGP[®] column. Binding properties and characterization of immobilized α_1 -acid glycoprotein 519(1990)285

Oxybenzone

Determination of sunscreen agents in cosmetic products by gas chromatography and gas chromatography-mass spectrometry 513(1990)321

Oxypaeoniflorin

Analysis of the components of *Paeonia radix* by capillary zone electrophoresis 515(1990)653

Oxyphenbutazone

Estimation of the analgesic muscle relaxants chlorzoxazone and diazepam in human plasma by reversed-phase liquid chromatography 528(1990)407

Oxypurinol

Simultaneous determination of allopurinol and oxypurinol by liquid chromatography using immobilized xanthine oxidase with electrochemical detection 530(1990)65

Oxytocein

High-performance liquid chromatographic study of the reduction of protected oxytocein by sodium in liquid ammonia 507(1990)59

Oxytocin

High-performance liquid chromatographic study of the reduction of protected oxytocein by sodium in liquid ammonia 507(1990)59

Ion-exchange high-performance liquid chromatographic analysis of the products of the enzymatic degradation of oxytocin 519(1990)244

Isocratic high-performance liquid chromatography-photodiode-array detection method for determination of lysine- and arginine-vasopressins and oxytocin in biological samples 536(1991)137

Animal test or chromatography? Validated high-performance liquid chromatographic assay as an alternative to the biological assay for ornipressin 548(1991)335

P

Paclobutrazol

Determination of enantiomeric purity of paclobutrazol and fluazifop-P-butyl using a diode-laser-based polarimetric high-performance liquid chromatography detector 513(1990)209

Paeoniflorin

Analysis of the components of *Paeonia radix* by capillary zone electrophoresis 515(1990)653

Palatinit[®]

Analysis of Palatinit[®] (isomalt) and its monomers in rat intestinal samples by high-performance liquid chromatography with ultraviolet detection 527(1990)238

Paldimycins

Estimation of molecular isomer ratios of paldimycin sodium (U-70,138F) by gas chromatography 502(1990)401

Palladium complexes

Paper chromatographic studies of metal complexes. II. Comparison of square planar and octahedral complexes 504(1990)464

Palmitic acid

Identification of individual diacylglycerols by adsorption thin-layer chromatography of their coordination complexes 538(1991)373

Palmityl alcohol

Long-chain fatty alcohol quantitation in subfemtomole amounts by gas chromatography-negative ion chemical ionization mass spectrometry. Application to long-chain acyl coenzyme A measurement 509(1990)325

Pancuronium

Simple high-performance liquid chromatographic method for the analysis of the non-depolarizing

neuromuscular blocking drugs in clinical anaesthesia 533(1990)241

Pancuronium bromide

Analysis of steroids. XLI. Ion-pair high-performance liquid chromatographic separation of quaternary ammonium steroids on silica 550(1991)639

Pantothenic acid

Simultaneous determination of pantothenic acid and hopantenic acid in biological samples and natural products by gas chromatography-mass fragmentography 525(1990)255

Papaverine

Separation of opium alkaloids by thin-layer chromatography combined with flame ionization detection using the peak pyrolysis method 547(1991)538

Paracetamol

In vivo microdialysis sampling coupled to liquid chromatography for the study of acetaminophen metabolism 506(1990)461

Estimation of the analgesic muscle relaxants chlorzoxazone and diazepam in human plasma by reversed-phase liquid chromatography 528(1990)407

Liquid-liquid extraction and analysis of paracetamol (acetaminophen) and its major metabolites in biological fluids by reversed-phase ion-pair chromatography 530(1990)222

Paracetamol glucuronide

Liquid-liquid extraction and analysis of paracetamol (acetaminophen) and its major metabolites in biological fluids by reversed-phase ion-pair chromatography 530(1990)222

Paracetamol sulphate

Liquid-liquid extraction and analysis of paracetamol (acetaminophen) and its major metabolites in biological fluids by reversed-phase ion-pair chromatography 530(1990)222

Paralytic shellfish poisons

Analysis of paralytic shellfish poisons by capillary electrophoresis 542(1991)483

Paraoxon

Determination of organophosphorus and carbamate pesticide standards by liquid chromatography with detection by inhibition of immobilized acetylcholinesterase 539(1991)47

Paraquat

Purification of anti-paraquat monoclonal antibodies by affinity chromatography on immobilised hapten 516(1990)433

Determination of paraquat in rat brain using ion-pair solid-phase extraction and reversed-phase high-performance liquid chromatography with ultraviolet detection 527(1990)189

Pararosanine

Toroidal coil centrifugal partition chromatography, a method for measuring partition coefficients 538(1991)119

Paraxanthine

Multiple absorbance ratio correlation — a new approach for assessing peak purity in liquid chromatography 506(1990)289

Parsol 1789

Determination of sunscreen agents in cosmetic products by gas chromatography and gas chromatography-mass spectrometry 513(1990)321

Parsol MCX

Determination of sunscreen agents in cosmetic products by gas chromatography and gas chromatography-mass spectrometry 513(1990)321

Patent Blue

Isotachopheresis of some synthetic colorants in foods 545(1991)413

Patulin

Applications of high-performance liquid chromatography to quantitation of metabolites and enzymes of the patulin pathway from *Penicillium patulum* 513(1990)237

Determination of patulin by capillary gas chromatography of the heptafluorobutyrate derivative 538(1991)441

Paulomycins

Estimation of molecular isomer ratios of paldimycin sodium (U-70,138F) by gas chromatography 502(1990)401

Peanut agglutinin

Affinity-repulsion chromatography 510(1990)49

Pectinase

Gel permeation chromatography for the determination of the molecular mass distribution of some industrial proteins 509(1990)227

Pectins

Increasing the purity of polyuronic sorbents 509(1990)239

Pelanserin

Determination of pelanserin in human plasma by high-performance liquid chromatography with amperometric detection 528(1990)501

Penems

High-performance liquid chromatographic method for the simultaneous assay of a new synthetic penem molecule and its salt-forming agent in injectable formulations 507(1990)171

Penicillamine

Ionophoretic studies on mixed complexes. Metal-nitritotriacetate-penicillamine system 542(1991)537

Penicillin amidase

Rapid protein purification using phenylbutylamine-Eupergit: a novel method for large-scale procedures 510(1990)149

Penicillins

Precolumn derivatization technique for high-performance liquid chromatographic determination of penicillins with fluorescence detection 504(1990)359

Determination of penicillin G in milk by high-performance liquid chromatography with automated liquid chromatographic cleanup 507(1990)177

Separation and determination of aspoxicillin in human plasma by micellar electrokinetic chromatography with direct sample injection 515(1990)245

Penicilloylated peptides

Tandem immunoaffinity and reversed-phase high-performance liquid chromatography for the identification of the specific binding sites of a hapten on a proteic carrier 539(1991)363

Pentachlorophenol

Transient changes of mobile phase in the high-performance liquid chromatographic separation of priority pollutant phenols 507(1990)399

Simultaneous assay of pentachlorophenol and its metabolite, tetrachlorohydroquinone, by gas chromatography without derivatization 533(1990)111

Fatty acid conjugates of chlorinated phenols and their high-performance liquid chromatographic analysis 537(1991)85

Performance of an extraction disk in synthetic organic chemical analysis using gas chromatography-mass spectrometry 538(1991)233

2,4-Pentadienoate-iron tricarbonyl derivatives

High-performance liquid chromatographic separation of racemic and diastereomeric mixtures of 2,4-pentadienoate-iron tricarbonyl derivatives 543(1991)233

Pentafluorobenzyl bromide

Simultaneous gas chromatographic determination of cyanide, iodide, nitrite, sulphide and thiocyanate anions by derivatization with pentafluorobenzyl bromide and using a kryptand as phase-transfer catalyst 502(1990)257

Pentafluorobenzylcarboxymethoxime

Determination of 19-nortestosterone, testosterone and trenbolone by gas chromatography-negative-ion mass spectrometry after formation of the pentafluorobenzylcarboxymethoxime-trimethylsilyl derivatives 547(1991)325

Pentafluorophenyl diazoalkanes

Pentafluorophenyldiazoalkanes as novel derivatization reagents for the determination of sensitive carboxylic acids by gas chromatography-negative-ion mass spectrometry 508(1990)349

Pentamorphone

Sensitive method for the determination of pentamorphone in serum by liquid chromatography-mass spectrometry with thermospray interface 534(1990)77

Pentane

Isocratic networks in supercritical fluid chromatography. III. Dependence of capacity factor, selectivity and resolution on temperature, pressure, density and free volume of pentane as shown in multi-dimensional plots 505(1990)99

Three-dimensional network plots using colours for a fourth variable with binary mixtures of pentane and 1,4-dioxane under sub- and supercritical conditions 505(1990)109

Pentazocine

High-performance liquid chromatographic determination of pentazocine in plasma 530(1990)200

Pentoxifylline

Analysis of pentoxifylline in rabbit plasma using a Hisep™ high-performance liquid chromatography column 532(1990)162

Peppermint oil

Use of two-dimensional gas chromatography in the direct enantiomer separation of chiral essential oil components 508(1990)341

Peptides

Reversed-phase high-performance liquid chromatography of proteins and peptides on a pellicular support based on hydrophilic resin 502(1990)416

Variance contributions to band spread in capillary zone electrophoresis 504(1990)1

Peptide behaviour and analysis on a chemically stable C₁₈-bonded vinyl alcohol copolymer column with alkaline and acidic eluents 506(1990)327

Modification of the selectivity of a reversed-phase high-performance liquid chromatographic system by binding sodium dodecyl sulphate to peptides 507(1990)45

High-performance liquid chromatographic study of the reduction of protected oxytocin by sodium in liquid ammonia 507(1990)59

Fully automated amino acid analysis for protein and peptide hydrolysates by precolumn derivatization with 9-fluorenyl methylchloroformate and 1-aminoadamantane 507(1990)67

High-performance liquid chromatographic determination of an arginine-containing octapeptide antagonist of vasopressin in human plasma by means of a selective post-column reaction with fluorescence detection 507(1990)79

Ion-exchange high-performance liquid chromatographic separation of peptides with UV photometric and electrochemical detection 509(1990)245

Separation and indirect detection of small-chain peptides using chromophoric mobile phase additives 509(1990)357

Salt-promoted adsorption chromatography 510(1990)47

- Simultaneous optimization of variables influencing selectivity and elution strength in micellar liquid chromatography. Effect of organic modifier and micelle concentration 511(1990)17
- Bioanalysis of the peptide des-enkephalin- γ -endorphin. On-line sample pretreatment using membrane dialysis and solid-phase isolation 511(1990)137
- High-performance liquid chromatography of amino acids, peptides and proteins. XCVIII. The influence of different displacer salts on the bandwidth properties of proteins separated by gradient elution anion-exchange chromatography 512(1990)41
- High-performance liquid chromatography of amino acids, peptides and proteins. XCIX. Comparative study of the equilibrium refolding of bovine, porcine and human growth hormone by size-exclusion chromatography 512(1990)57
- Purification of immunomodulatory factors in human peripheral blood leukocytes 512(1990)139
- Separation of fragments from human serum albumin and its charged variants by reversed-phase and cation-exchange high-performance liquid chromatography 512(1990)165
- Chromatography and generation of specific antisera to synthetic peptides from a protective *Boophilus microplus* antigen 512(1990)189
- High-performance liquid chromatographic investigations on the cleavage kinetics of side-chain-protected arginine derivatives with a sophisticated post-column reaction detector 512(1990)249
- Identification of peptides containing aromatic amino acids, cysteine, iodotyrosine and iodothyronine by high-performance liquid chromatography with photodiode-array detection 512(1990)255
- Optimization of high-performance liquid chromatographic peptide separations with alternative mobile and stationary phases 512(1990)273
- Analysis of amino acids by liquid chromatography after pre-column derivatization with 4-nitrophenylisothiocyanate 512(1990)283
- Tryptic fingerprinting on a poly(styrene-divinylbenzene) reversed-phase column 512(1990)315
- Synthetic antibody fragment as ligand in immunoaffinity chromatography 512(1990)337
- High-performance ion-exchange chromatography of peptides on a pellicular ion exchanger 513(1990)384
- Separation of enantiomeric protected dipeptides by chiral high-performance liquid chromatography 514(1990)325
- Automated high-resolution two-dimensional liquid chromatographic system for the rapid and sensitive separation of complex peptide mixtures 515(1990)313
- Electrochemical detection of dipeptides and dipeptide amides 515(1990)451
- Separation of peptide diastereomers by reversed-phase high-performance liquid chromatography and its applications. IV. New derivatization reagent for the enantiomeric analysis of α - and β -amino acids 515(1990)475
- Analysis of dilute peptide samples by capillary zone electrophoresis 516(1990)79
- Static and scanning array detection in capillary electrophoresis-mass spectrometry 516(1990)147
- Capillary zone electrophoresis-mass spectrometry using a coaxial continuous-flow fast atom bombardment interface 516(1990)167
- Free solution capillary electrophoresis and micellar electrokinetic resolution of amino acid enantiomers and peptide isomers with L- and D-Marfey's reagents 516(1990)241
- Immobilized metal ion affinity chromatography. Effect of solute structure, ligand density and salt concentration on the retention of peptides 516(1990)333
- Non-porous polybutadiene-coated silicas as stationary phases in reversed-phase chromatography 517(1990)269
- High-performance liquid chromatographic determination of proteins by post-column fluorescence derivatization with thiamine reagent 518(1990)141

- Capillary electrophoretic separations of peptides using micelle-forming compounds and cyclodextrins as additives 519(1990)189
- Ion-exchange high-performance liquid chromatographic analysis of the products of the enzymatic degradation of oxytocin 519(1990)244
- High-performance liquid chromatography of casein hydrolysates phosphorylated and dephosphorylated. I. Peptide mapping 519(1990)299
- Determination of the lipophilicity of some peptides. Effect of surface pH of silica 520(1990)249
- Polyalkylenes used as stationary phases for preparative reversed-phase liquid chromatography 520(1990)263
- High-performance liquid chromatographic method for the study of solvent effects on the peptidase and esterase activity of thermitase 520(1990)333
- Effects of mobile phase composition on the reversed-phase separation of dipeptides and tripeptides with cyclodextrin-bonded-phase columns 522(1990)143
- Use of a short analytical column for the isolation and identification of degradation products of ICI 200 880, a peptidic elastase inhibitor 522(1990)213
- Frontal chromatographic techniques in preparative chromatography 523(1990)11
- Liquid chromatography-mass spectrometry for the qualitative analyses of iminodipeptides in the urine of patients with prolidase deficiency 527(1990)279
- Fluorescence assay for small peptides and amino acids: high-performance liquid chromatographic determination of selected substrates using activated *S*-flunoxapfen as a chiral derivatizing agent 528(1990)55
- Rapid method based on reversed-phase high-performance liquid chromatography for purification of human myelin basic protein and its thrombic and endoproteinase Lys-C peptides 528(1990)79
- Proenkephalin A and proopiomelanocortin peptides in human cerebrospinal fluid 530(1990)235
- Automated precolumn derivatization of amino acids, small peptides, brain amines and drugs with primary amino groups for reversed-phase high-performance liquid chromatography using naphthalenedialdehyde as the fluorogenic label 533(1990)171
- High-performance liquid chromatographic determination of (Me)Arg-Lys-Pro-Trp-*tert*-Leu-Leu in plasma 534(1990)190
- Post-column continuous-flow analysis combined with reversed-phase liquid chromatography and computer-aided detection for the characterisation of peptides 535(1990)33
- Capillary zone electrophoresis of α_1 -acid glycoprotein fragments from trypsin and endoglycosidase digestions 536(1991)31
- Cation-exchange high-performance liquid chromatography of synthetic salmon calcitonin 536(1991)123
- Phosphate-gradient high-performance liquid chromatographic method for the analysis of synthetic salmon calcitonin 536(1991)131
- Isocratic high-performance liquid chromatography-photodiode-array detection method for determination of lysine- and arginine-vasopressins and oxytocin in biological samples 536(1991)137
- High-performance liquid chromatography-time-of-flight mass spectrometry and its application to peptide analyses 536(1991)143
- High-performance liquid chromatography of amino acids, peptides and proteins. CVII. Analysis of group retention contributions for peptides separated with a range of mobile and stationary phases by reversed-phase high-performance liquid chromatography 536(1991)165
- High-performance liquid chromatographic method for the determination of prolyl peptides in urine 536(1991)337
- Reversed-phase ion-pair liquid chromatography of the angiotensins 536(1991)357

- Automated phenylthiocarbamyl amino acid analysis of carboxypeptidase/aminopeptidase digests and acid hydrolysates 537(1991)153
- Alternative mobile phases for the reversed-phase high-performance liquid chromatography of peptides and proteins 537(1991)181
- Reversed-phase high-performance liquid chromatographic characterization of acetic acid extracts of the normal and the diabetic human pancreas 537(1991)201
- Purification of a synthetic myristylated peptide by counter-current chromatography 538(1991)141
- Isolation of bacitracins A and F by high-speed counter-current chromatography 538(1991)203
- Column-friendly reversed-phase high-performance liquid chromatography of peptides and proteins using formic acid with sodium chloride and dynamic column coating with crown ethers 539(1991)37
- Tandem immunoaffinity and reversed-phase high-performance liquid chromatography for the identification of the specific binding sites of a hapten on a proteic carrier 539(1991)363
- Immobilized Fe³⁺ affinity chromatographic isolation of phosphopeptides 539(1991)425
- Separation of aspartame and its precursor stereoisomers by chiral chromatography 540(1991)392
- Comparison of polybutadiene-coated alumina and octadecyl-bonded silica for separations of proteins and peptides by reversed-phase high-performance liquid chromatography 541(1991)303
- Allergenic fragments in *Parietaria judaica* pollen extract 542(1991)337
- Electrochemical detection of oligopeptides through the precolumn formation of biuret complexes 542(1991)345
- Application of an anhydrotrypsin-immobilized precolumn for selective separation of peptides having arginine or lysine at their C-termini by column-switching high-performance liquid chromatography 543(1991)59
- Chiral high-performance liquid chromatography of aromatic cyclic dipeptides using cyclodextrin stationary phases 543(1991)299
- Analysis of endoproteinase Arg C action on adrenocorticotrophic hormone by capillary electrophoresis and reversed-phase high-performance liquid chromatography 543(1991)451
- Macroporous synthetic hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1991)249
- Non-porous hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1989)257
- Perfusion chromatography packing materials for proteins and peptides 544(1991)267
- Peptide separation by gel filtration high-performance liquid chromatography using a gradient elution system 545(1991)183
- Capillary electrophoresis of peptides. Analysis of adrenocorticotrophic hormone-related fragments 545(1991)379
- Hydrophilic-interaction chromatography of peptides on hydrophilic and strong cation-exchange columns 548(1991)13
- Solution properties of polyelectrolytes. VII. Non-ideal mechanisms in size-exclusion chromatography of synthetic polyions, peptides and proteins 548(1991)93
- High-performance liquid chromatography of amino acids, peptides and proteins. CXI. Retention behaviour of proteins with macroporous tentacle-type anion exchangers 548(1991)117
- High-performance liquid chromatography of amino acids, peptides and proteins. CXII. Analysis of operating parameters affecting the breakthrough curves in fixed-bed chromatography of proteins using several mathematical models 548(1991)127
- High-performance liquid chromatography of amino acids, peptides and proteins. CXIII. Predicting the performance of non-porous particles in affinity chromatography of proteins 548(1991)147

Comparison of silica-based cyanopropyl and octyl reversed-phase packings for the separation of peptides and proteins 548(1991)179

Silica *versus* polymer-based stationary phases for reversed-phase high-performance liquid chromatographic analyses of rat insulin biosynthesis. A comparison of resolution and recovery 548(1991)195

Multi-column preparative reversed-phase sample displacement chromatography of peptides 548(1991)267

Glycosylation of extracellular superoxide dismutase studied by high-performance liquid chromatography and mass spectrometry 548(1991)293

Peptide maps at picomolar levels obtained by reversed-phase high-performance liquid chromatography and pre-column derivatization with phenyl isothiocyanate. Microsequencing of phenylthiocarbamyl peptides 548(1991)303

High-performance liquid chromatographic determination of peptides in biological fluids by automated pre-column fluorescence derivatization with fluorescamine 548(1991)319

Separation of acidic peptides by reversed-phase ion-pair chromatography. Analytical application to a series of acidic substrates of casein kinases 548(1991)329

Non-radioactive detection of MHC class II-peptide antigen complexes in the sub-picomole range by high-performance size-exclusion chromatography with fluorescence detection 548(1991)343

High-performance liquid chromatographic separation of modified and native melittin following transglutaminase-mediated derivatization with a dansyl fluorescent probe 548(1991)351

Large-scale purification of the synthetic peptide fragment 163-171 of human interleukin- β by multi-dimensional displacement chromatography 549(1991)175

Bioanalysis of the neuropeptide des-enkephalin- γ -endorphin by high-performance liquid chromatography with on-line sample pretreatment using gel permeation and solid-phase isolation 549(1991)185

Peptides, phosphorylated

Reversed-phase high-performance liquid chromatographic separation of synthetic phosphopeptide isomers 512(1990)265

Peptides, tryptic

High-performance displacement chromatography-mass spectrometry of tryptic peptides of recombinant human growth hormone 512(1990)299

Peptide toxins

Internal surface reversed-phase high-performance liquid chromatographic separation of the cyanobacterial peptide toxins microcystin-LA, -LR, -YR, -RR and nodularin 509(1990)390

Peramine

Analysis of peramine in fungal endophyte-infected grasses by reversed-phase thin-layer chromatography 503(1990)288

Perchlorate

Use of cyclodextrins in the isotachophoretic determination of various inorganic anions 518(1990)189

Perfluorocarbons

Radiofrequency detector for gas chromatography 520(1990)97

Permanent gases

Radiofrequency detector for gas chromatography 520(1990)97

Permethrine

Determination of permethrine and tetramethrine by isotachophoretic analysis of hydrolytic products 545(1991)427

Peroxidase

Rapid detection and quantification of peroxidase activity in liquid chromatography 539(1991)198

Highly active enzyme preparations immobilized via matrix-conjugated anti-Fc antibodies 539(1991)335

Peroxyacetyl nitrate

Determination of peroxyacetyl nitrate, peroxypropionyl nitrate and alkyl nitrates of atmospheric importance using capillary columns 541(1991)99

Peroxyacid-uroporphyrin

Determination of hydroxy and peroxy acid derivatives of uroporphyrin in the plasma of

patients with congenital erythropoietic porphyria by high-performance liquid chromatography 550(1991)603

Peroxyoxalate

Post-column adjustment of conditions for peroxyoxalate chemiluminescence detection for high-performance liquid chromatography 503(1990)155

Naphthalene- and anthracene-2,3-dialdehyde as precolumn labelling reagents for primary amines using reversed- and normal-phase liquid chromatography with peroxyoxalate chemiluminescence detection 511(1990)155

Sensitive assay system for bile acids and steroids having hydroxyl groups utilizing high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 515(1990)577

Photochemical reaction coupled to solid-state peroxyoxalate chemiluminescence for the high-performance liquid chromatographic detection of compounds having weak chromophores 523(1990)163

Peroxypropionyl nitrate

Determination of peroxyacetyl nitrate, peroxypropionyl nitrate and alkyl nitrates of atmospheric importance using capillary columns 541(1991)99

Perphenazine

Controlling the retention of clopenthixol and other basic drug substances by reversed-phase ion-pair chromatography on bonded-phase materials using two counter-ions of opposite charge 523(1990)217

Pertussis toxin

Simultaneous determination of *Bordetella pertussis* toxin and filamentous haemagglutinin concentrations by hydroxyapatite high-performance liquid chromatography 512(1990)227

Perylene

Anomalous behavior of selected methyl-substituted polycyclic aromatic hydrocarbons in reversed-phase liquid chromatography 514(1990)111

Pesticides

High-performance liquid chromatographic determination of the herbicide glyphosate and its

metabolite (aminomethyl)phosphonic acid and their extraction from cyanobacteria 502(1990)201

High-performance liquid chromatographic separation and determination of quinalphos in technical and commercial formulations 502(1990)208

High-performance liquid chromatographic determination of dibutylthiocarbamate degradation products in cucumbers and soil 502(1990)214

Development of an automated high-performance liquid chromatographic method for the on-line pre-concentration and determination of trace concentrations of pesticides in drinking water 503(1990)167

Determination of chlorpyrifos in water by large-volume direct aqueous injection capillary gas chromatography 503(1990)377

High-precision sampling of trace gas-borne volatiles by the dynamic solvent effect with a comparative review of alternative techniques 504(1990)21

Simple, direct gas chromatography-mass spectrometry interface for the ion trap detector 504(1990)429

Analysis of triazine and triazole herbicides by gradient-elution supercritical fluid chromatography 505(1990)293

Characterization of the thermal decomposition products of the sulfonylurea herbicide chlorsulfuron 505(1990)395

High-performance liquid chromatographic separation of cyromazine and its metabolite melamine 505(1990)413

Determination of warfarin in drinking water by high-performance liquid chromatography after solid-phase extraction 507(1990)381

Transient changes of mobile phase in the high-performance liquid chromatographic separation of priority pollutant phenols 507(1990)399

Determination of fungistatic quaternary ammonium compounds in beverages and water samples by high-performance liquid chromatography 507(1990)421

- Optimization of the postcolumn hydrolysis reaction on solid phases for the routine high-performance liquid chromatographic determination of N-methylcarbamate pesticides in food products 507(1990)459
- Gas-liquid chromatographic analysis of ethyl fenthion in tissues of native birds 508(1990)199
- Simultaneous determination of insecticides, acaricides and fungicides by thin-layer chromatography 509(1990)263
- Some possibilities of combining high-performance liquid chromatography with isotachophoresis for the trace determination of ionogenic compounds present in complex matrices 509(1990)271
- Neutral, alkaline and difference ultraviolet spectra of secondary metabolites from *Penicillium* and other fungi, and comparisons to published maxima from gradient high-performance liquid chromatography with diode-array detection 511(1990)195
- Determination of enantiomeric purity of paclobutrazol and fluzifop-P-butyl using a diode-laser-based polarimetric high-performance liquid chromatography detector 513(1990)209
- Separation and determination of acidic herbicides on a PRP-1 polymeric column 513(1990)219
- Behaviour of 23 persistent organochlorine compounds during sulphuric acid clean-up on a solid-matrix column 513(1990)333
- Simple method for the isolation of azadirachtin by preparative high-performance liquid chromatography 513(1990)389
- Reversed-phase high-performance liquid chromatographic method for the determination of soil-bound [¹⁴C]atrazine and its radiolabeled metabolites in a soil metabolism study 514(1990)209
- Enantiomer separation of pyrethroid insecticides by high-performance liquid chromatography with chiral stationary phases 515(1990)441
- Analysis of the pesticide flufenoxuron in apples and kiwifruit by high-performance liquid chromatography 516(1990)442
- Small-scale method for the determination of organophosphorus insecticides in tea using sulphuric acid as clean-up reagent 516(1990)446
- Pesticide analysis by gas chromatography with a novel atomic emission detector 517(1990)131
- Element-selective detection after supercritical fluid chromatography by means of a Surfatron plasma in the near-infrared spectral region 517(1990)477
- Use of sulfur chemiluminescence detection after supercritical fluid chromatography 517(1990)491
- Simultaneous determination of trace concentrations of benomyl, carbendazim (MBC) and nine other pesticides in water using an automated on-line pre-concentration high-performance liquid chromatographic method 518(1990)242
- Analyse par chromatographie liquide du diamino-2,3 phénazine et de l'hydroxy-2 amino-3 phénazine dans les carbendazimes techniques et formulés 518(1990)375
- Thin-layer chromatographic detection of endosulfan and phosphamidon by use of cobalt acetate and *o*-tolidine 519(1990)268
- Comparative study of some columns for direct determination of carbofuran by gas-liquid chromatography with nitrogen-specific detection 519(1990)359
- Simplified high-performance liquid chromatography method for the simultaneous analysis of tebutiuron and hexazinone 536(1991)223
- Determination of nine acidic herbicides in water and soil by gas chromatography using an electron-capture detector 537(1991)385
- Systematic search for suitable two-phase solvent systems for high-speed counter-current chromatography 538(1991)99
- Performance of an extraction disk in synthetic organic chemical analysis using gas chromatography-mass spectrometry 538(1991)233
- Gas chromatographic-mass spectrometric determination of oxolinic acid in fish using selected ion monitoring 538(1991)259
- Liquid chromatographic determination of carbendazim in the presence of some normal soil constituents with photodiode-array detection 538(1991)480

Determination of organophosphorus and carbamate pesticide standards by liquid chromatography with detection by inhibition of immobilized acetylcholinesterase 539(1991)47

Chiral high-performance liquid chromatography of synthetic pyrethroid insecticides 539(1991)207

High-performance liquid chromatographic separation of fenthion and its metabolites 540(1991)406

Determination of glyphosate and its major metabolite aminomethylphosphonic acid by high-performance liquid chromatography after derivatization with *p*-toluenesulphonyl chloride 540(1991)411

Use of low-purity solvents and reagents for analysis of residues of synthetic pyrethroid pesticides by gas chromatography with electron-capture detection 540(1991)464

Computer simulation as an aid in method development for gas chromatography. II. Changes in band spacing as a function of temperature 541(1991)21

Computer simulation as an aid in method development for gas chromatography. III. Examples of its application 541(1991)35

Enantiomeric separation of substituted 2-aryloxy propionic esters. Application to the determination of the enantiomeric excess in herbicide formulations 541(1991)349

Screening method for phenoxy acid herbicides in ground water by high-performance liquid chromatography of 9-anthryldiazomethane derivatives and fluorescence detection 541(1991)359

Rapid and sensitive determination of phenylurea herbicides in water in the presence of their anilines by extraction with a Carboxack cartridge followed by liquid chromatography 541(1991)365

Determination of chlorophenoxy acids using high-performance liquid chromatography-particle beam mass spectrometry 542(1991)385

Gas chromatographic determination of aldicarb and its metabolites in urine 542(1991)526

Direct determination of metamiltron in surface

water by large sample volume injection 543(1991)244

Multiple-development high-performance thin-layer chromatography of organochlorine pesticides 545(1991)214

Determination of permethrin and tetramethrin by isotachophoretic analysis of hydrolytic products 545(1991)427

Determination of carbaryl and 1-naphthol in English apples and strawberries by combined gas chromatography-fluorescence spectrometry 547(1991)345

Gas chromatographic system for the identification of halogenated pesticides by retention indices using *n*-alkanes as standards 547(1991)355

Determination of phenoxyacid herbicides in water 547(1991)478

Determination of diclofop-methyl and diclofop residues in soil and crops by gas chromatography 547(1991)509

High-performance liquid chromatographic determination of atrazine, deisopropylatrazine and deethylatrazine in soils from corn fields 549(1991)229

Carrier effect in the analysis of phenylurea herbicides using high-performance liquid chromatography-particle beam-mass spectrometry 549(1991)237

Petroleum

Identification and analysis of trimethylbiphenyls in petroleum 538(1991)424

Pharmaceuticals

Pharmaceutical analysis by capillary zone electrophoresis and micellar electrokinetic capillary chromatography 538(1991)506

Phaseic acid

Optical resolution of abscisic acid metabolites using an ovomucoid-conjugated high-performance liquid chromatographic column 508(1990)217

Phenanthrene

Solid-surface room-temperature phosphorescence detection for high-performance liquid chromatography 508(1990)37

Long-term use of liquid-crystalline stationary phase for separation and determination of polynuclear aromatic hydrocarbons in carbochemical products. Comparison of results obtained by different methods 509(1990)53

Solubility parameter treatment for the characterization of the stationary phase in the reversed-phase chromatography of benzene derivatives 515(1990)3

Liquid chromatographic separation of isomeric phenanthrols on monomeric and polymeric C₁₈ columns 536(1991)245

Phenanthrols

Liquid chromatographic separation of isomeric phenanthrols on monomeric and polymeric C₁₈ columns 536(1991)245

Phencyclidine

Detection of low nanogram quantities of phencyclidine extracted from human urine. Preparation of an acetylated column packing material for use in gas chromatography with nitrogen-phosphorus detection 528(1990)208

Phenetylammonium

Determination of 10-camphorsulphonates in pharmaceutical formulations by high-performance liquid chromatography 511(1990)367

Phenobarbital

Design of a photoionization detector for high-performance liquid chromatography using an automated liquid-to-vapor phase interface and application to phenobarbital in an animal feed and to amantadine 505(1990)319

Metabolic studies with phenobarbitone, primidone and their N-alkyl derivatives: quantification of substrates and metabolites using chemical ionization gas chromatography-mass spectrometry 526(1990)59

Direct serum injection high-performance liquid chromatographic method for the simultaneous determination of phenobarbital, carbamazepine and phenytoin 527(1990)389

Simultaneous determination of six antiepileptic drugs by capillary gas chromatography 527(1990)428

Determination of anticonvulsant drugs and methyl xanthine derivatives in serum by liquid chromatography with direct injection: column-switching method using a new internal-surface

reversed-phase silica support as a precolumn 529(1990)455

Synthesis of mixed-functional-phase silica supports for liquid chromatography and their applications to assays of drugs in serum 535(1990)163

Phenolic acids

Analysis of aliphatic and phenolic carboxylic acids by capillary supercritical fluid chromatography-Fourier-transform infrared microspectrometry 505(1990)179

Applications of gel filtration chromatography for resol phenolic resins using aqueous sodium hydroxide as solvent 513(1990)271

Separation and identification of free phenolic acids in wines by high-performance liquid chromatography 537(1991)93

Phenolic compounds

Comparison of octadecyl-bonded alumina and silica for reversed-phase high-performance liquid chromatography 505(1990)307

Resolution of complex mixtures of phenolics in poplar bud exudate by analysis of gas chromatography-mass spectrometry data 519(1990)145

Étude par chromatographie liquide haute performance des antioxydants phénoliques présents dans les matériaux plastiques. Comparaison de trois méthodes de détection: spectrophotométrique dans l'ultra-violet, électrochimique, et évaporative à diffusion de la lumière 522(1990)131

Improvement of on-line detection in high-speed counter-current chromatography: UV absorptiometry and evaporative light-scattering detection 538(1991)91

Chemical characteristics of herbivore defenses in *Betula pendula* winter-dormant young stems 547(1991)367

Evaluation of gas chromatography-Fourier transform infrared spectroscopy-mass spectrometry for analysis of phenolic compounds 549(1991)297

Phenol red

Toroidal coil centrifugal partition chromatography, a method for measuring partition coefficients 538(1991)119

Phenols

Displacement chromatography on packed capillary columns 502(1990)11

Polyphenols of *Quercus robur* L. II. Preparative isolation by low-pressure and high-pressure liquid chromatography of heartwood ellagitannins 502(1990)107

High-precision sampling of trace gas-borne volatiles by the dynamic solvent effect with a comparative review of alternative techniques 504(1990)21

Comparison of various stationary phases for normal-phase high-performance liquid chromatography of ethoxylated alkylphenols 504(1990)297

Separation and quantitation of phenolic compounds in mainstream cigarette smoke by capillary gas chromatography with mass spectrometry in the selected-ion mode 505(1990)365

Optimization of chromatographic methods by a combination of optimization software and expert systems 506(1990)169

Selective determination of trace levels of phenol in river water using electrochemical concentration modulation correlation chromatography 506(1990)201

Transient changes of mobile phase in the high-performance liquid chromatographic separation of priority pollutant phenols 507(1990)399

Determination of phenol in poly(vinyl chloride) 507(1990)417

Determination of resin and fatty acids in pulp and paper mill effluents and white waters by gas-liquid chromatography 509(1990)65

Qualitative analysis of a commercially available phenol-formaldehyde resin, by static and dynamic headspace analysis using a mass-selective detector 509(1990)101

Use of polymeric sorbents for the off-line preconcentration of priority pollutant phenols from water for high-performance liquid chromatographic analysis 509(1990)135

Simultaneous optimization of variables influencing selectivity and elution strength in micellar liquid chromatography. Effect of organic modifier and micelle concentration 511(1990)17

Automated multiple development high-performance thin-layer chromatographic analysis of natural phenolic compounds 511(1990)396

Characterization of an adamantly-modified silica used as a stationary phase in high-performance liquid chromatography 514(1990)11

Capillary zone electrophoretic separation of chlorophenols in industrial waste water with on-column electrochemical detection 514(1990)389

Phenols as internal standards in reversed-phase high-performance liquid chromatography in pharmaceutical analysis 515(1990)305

Retention of eleven priority phenols using micellar electrokinetic chromatography 516(1990)263

Gas chromatographic determination of phenol compounds with automatic continuous extraction and derivatization 518(1990)59

Study of the characteristics and analytical application of a capillary chromatograph with an electrochemical detector 520(1990)307

Poly(crown ether) stationary phase for open-tubular capillary column chromatography 521(1990)128

Computer simulation for optimization of high-performance liquid chromatography of some phenolic pollutants 523(1990)81

Determination of phenol, *m*-, *o*- and *p*-cresol, *p*-aminophenol and *p*-nitrophenol in urine by high-performance liquid chromatography 535(1990)311

Separation of phenols and aromatic hydrocarbons from biomass tar using aminopropylsilane normal-phase liquid chromatography 538(1991)303

Behaviour of phenols under supercritical fluid chromatographic conditions in relation to the pyrolysis of lignocellulosic materials 540(1991)225

Computer simulation as an aid in method development for gas chromatography. II. Changes in band spacing as a function of temperature 541(1991)21

Computer simulation as an aid in method development for gas chromatography. III. Examples of its application 541(1991)35

Analysis of biomass pyrolysis liquids: separation and characterization of phenols 542(1991)263

Chromatographic characterization of silica-based reversed phases (Review) 544(1991)371

Step change of co-ion, a new option in capillary zone electrophoresis 545(1991)331

Gradient elution methods for predicting isocratic conditions (Review) 550(1991)425

Chromatographic separation and examination of carbohydrate and phenolic components of the non-tannin fraction of black wattle (*Acacia mearnsii*) bark extract 550(1991)519

Phenothiazines

Application of a computer-assisted high-performance liquid chromatographic multi-wavelength ultraviolet detection system to simultaneous toxicological drug analyses 506(1990)133

Phenoxyacetic acids

Separation and determination of acidic herbicides on a PRP-1 polymeric column 513(1990)219

Phenoxy acids

Screening method for phenoxy acid herbicides in ground water by high-performance liquid chromatography of 9-anthryldiazomethane derivatives and fluorescence detection 541(1991)359

Determination of phenoxyacid herbicides in water 547(1991)478

Phenprocoumon

Determination of the plasma protein binding of the coumarin anticoagulants phenprocoumon and its metabolites, warfarin and acenocoumarol, by ultrafiltration and high-performance liquid chromatography 529(1990)479

Analysis of phenprocoumon and its hydroxylated and conjugated metabolites in human urine by high-performance liquid chromatography after solid-phase extraction 530(1990)347

Phentermine

Détection spécifique par chromatographie gazeuse-spectrométrie de masse des amines

sympathomimétiques urinaires dans le cadre des contrôles antidopage 541(1991)109

Standardization of a multi-wavelength UV detector for liquid chromatography-based toxicological analysis 550(1991)449

Phenylacetic mustard

High-performance liquid chromatographic analysis of chlorambucil *tert*-butyl ester and its active metabolites chlorambucil and phenylacetic mustard in plasma and tissue 534(1990)279

Phenylalanine

Displacement chromatography on cyclodextrin-silicas. III. Enantiomer separations 506(1990)481

Competition between phenylalanine and acetic acid in a chromatographic column as indicated by their adsorption isotherms 517(1990)285

Identification and quantitation of phenylalanine, tyrosine and dihydroxyphenylalanine in the thoracic nervous system of the locust, *Schistocerca gregaria*, by gas chromatography-negative-ion chemical ionisation mass spectrometry 532(1990)1

Solid-phase reagent containing the 3,5-dinitrophenyl tag for the improved derivatization of chiral and achiral amines, amino alcohols and amino acids in high-performance liquid chromatography with ultraviolet detection 537(1991)123

Analytical- and preparative-scale chromatographic separation of phenylalanine from aspartame using a new polymeric sorbent 540(1991)85

On-line multichannel Raman spectroscopic detection system for capillary zone electrophoresis 540(1991)355

Thin-layer chromatographic method for the simultaneous determination of physiological aromatic amino acids 547(1991)531

Gradient elution methods for predicting isocratic conditions (Review) 550(1991)425

Phenylalanine anilide

Enantiomeric resolution of amino acid derivatives on molecularly imprinted polymers as monitored by potentiometric measurements 516(1990)323

Phenylalanine derivatives

Chiral thin-layer chromatographic separation of phenylalanine and tyrosine derivatives
504(1990)450

Phenylalanine methyl ester

Breakthrough curves of insulin, [D -Phe⁶]-Gonadotropin-releasing hormone and phenylalanine methyl ester on copolymers of alkylacrylate and divinylbenzene 537(1991)167

N-Phenylamides

Retention of some organic electrolytes in ion-pair reversed-phase high-performance liquid and reversed-phase high-performance thin-layer chromatographic systems 520(1990)403

Phenylaminesulphonic acids

Separation of phenylamine- and naphthylaminesulphonic acids by reversed-phase high-performance liquid chromatography
523(1990)247

Effect of organic modifier concentration on retention in reversed-phase ion-pair liquid chromatography 545(1991)59

1-Phenyl-2-aminopropane

Enantiomeric separation of amines using N-benzoxycarbonylglycyl-L-proline as chiral additive and porous graphitic carbon as solid phase
543(1991)287

Phenyl-ONN-azoxycyanides

Reversed-phase high-performance liquid chromatographic study of the lipophilicity of a series of analogues of the antibiotic "calvatic acid" 547(1991)167

Phenylbutazone

Improved stability of phenylbutazone for its determination by liquid chromatography
530(1990)160

Phenylcarbamates

Application de la dérivation par l'isocyanate de phényle à l'analyse chromatographique de molécules phénoliques (antioxydants)
519(1990)337

Phenylenediamines

Determination of aromatic amines at trace levels by ion interaction reagent reversed-phase high-performance liquid chromatography. Analysis of hair dyes and other water-soluble dyes
518(1990)149

2-Trichloromethylbenzimidazole, a selective chromogenic reagent for the detection of *o*-phenylenediamine on thin-layer plates
541(1991)480

2-Phenylethanol

Stationary phase effects in reversed-phase liquid chromatography under overload conditions
550(1991)301

1-Phenylethylamides

High-resolution gas chromatographic resolution of chiral primary alcohols and acids as their diastereomeric 1-phenylethyl amides
519(1990)263

1-Phenylethylamine

Separation of carboxylic acid enantiomers by gas chromatography after rapid derivatization with (*R*)- or (*S*)-1-phenylethylamine after activation by ethyl chloroformate 508(1990)333

2-Phenylethylamine

Determination of aromatic amines at trace levels by ion interaction reagent reversed-phase high-performance liquid chromatography. Analysis of hair dyes and other water-soluble dyes
518(1990)149

3-Phenylformazan

Formazan derivatives as the precolumn derivatization reagents in a coupled high-performance liquid chromatographic-spectrophotometric system for trace metal determination 515(1990)603

Phenyl glycidyl ether

Adduct formation identification between phenyl glycidyl ether and 2'-deoxyadenosine and thymidine by chromatography, mass spectrometry and nuclear magnetic resonance spectroscopy
504(1990)113

Comparison of the isolation of adducts of 2'-deoxycytidine and 2'-deoxyguanosine with phenylglycidyl ether by high-performance liquid chromatography on a reversed-phase column and a polystyrene-divinylbenzene column
541(1991)317

Liquid chromatographic analysis of cationic polymerized phenyl glycidyl ether 547(1991)195

Phenylglycine

Reversed-phase high-performance liquid chromatographic separation of the enantiomers of N-[4,4-di(3-methylthien-2-yl)-but-3-enyl] nipecotic acid on a Pirkle-type phenylglycine stationary phase 503(1990)115

Phenylhydrazine

Aldehyde and nucleotide separations by high-performance liquid chromatography. Application to phenylhydrazine-induced damage of erythrocytes and reticulocytes 520(1990)411

(Phenyl)hydroxynaftopidil

High-performance liquid chromatography of naftopidil, a novel antihypertensive drug, and two metabolites in human plasma 534(1990)247

N-Phenyl-N'-isopropyl-p-phenylenediamine

High-performance liquid chromatography of rubber antidegradants with diode-array detection 545(1991)205

Phenylisothiocyanate

High-performance liquid chromatographic determination of selected amino acids in rat brain by precolumn derivatization with phenylisothiocyanate 503(1990)177

Phenylactic acid

Selection of the background electrolyte composition with respect to electromigration dispersion and detection of weakly absorbing substances in capillary zone electrophoresis 545(1991)239

Phenylmercuric nitrate

High-performance liquid chromatographic investigation of the interaction of phenylmercuric nitrate and sodium metabisulphite in eye drop formulations 511(1990)233

Phenyl- β -naphthylamine

High-performance liquid chromatography of rubber antidegradants with diode-array detection 545(1991)205

Phenylphenols

Reversed-phase chromatographic separation of selected hydroxyl aromatics with β -cyclodextrin as a mobile phase additive 514(1990)19

Phenylpropanol

Liquid chromatographic evaluation of chiral derivatizing reagents for the resolution of amine and alcohol enantiomers 508(1990)220

Phenylpropanolamine

Electrochemical enhancement of high-performance liquid chromatography-UV detection for determination of phenylpropanolamine 518(1990)167

High-performance liquid chromatographic determination of phenylpropanolamine in human plasma and urine, using column switching combined with ion-pair chromatography 527(1990)103

3-Phenylpropylamine

Determination of aromatic amines at trace levels by ion interaction reagent reversed-phase high-performance liquid chromatography. Analysis of hair dyes and other water-soluble dyes 518(1990)149

Phenylpyrroles

High-performance liquid chromatographic analysis of phenylpyrroles produced by *Pseudomonas cepacia* 508(1990)247

5-Phenyltetrahydrooxazol-2-one

Coupled column chromatography in chiral separations. I. Enantiomeric separation on swollen microcrystalline cellulose triacetate columns after a pre-separation on a non-chiral alkylsilica column 513(1990)195

Phenyltin compounds

Simultaneous determination of butyltin and phenyltin compounds in oysters by capillary gas chromatography 525(1990)105

Phenylureas

Rapid and sensitive determination of phenylurea herbicides in water in the presence of their anilines by extraction with a Carbo-pack cartridge followed by liquid chromatography 541(1991)365

Carrier effect in the analysis of phenylurea herbicides using high-performance liquid chromatography-particle beam-mass spectrometry 549(1991)237

Phenytol

Direct high-performance liquid chromatographic analysis of *p*-hydroxyphenyl-phenylhydantoin glucuronide, the final metabolite of phenytol, in human serum and urine 526(1990)581

Detection of carbon-14 eluting from a capillary gas chromatograph using chemical reaction interface-mass spectrometry 527(1990)1

Direct serum injection high-performance liquid chromatographic method for the simultaneous determination of phenobarbital, carbamazepine and phenytol 527(1990)389

Simultaneous determination of six antiepileptic drugs by capillary gas chromatography 527(1990)428

Determination of anticonvulsant drugs and methyl xanthine derivatives in serum by liquid chromatography with direct injection: column-switching method using a new internal-surface reversed-phase silica support as a precolumn 529(1990)455

Synthesis of mixed-functional-phase silica supports for liquid chromatography and their applications to assays of drugs in serum 535(1990)163

Simultaneous separation and determination (in serum) of phenytoin and carbamazepine and their deuterated analogues by high-performance liquid chromatography-ultraviolet detection for tracer studies 535(1990)271

Simultaneous determination of *p*-hydroxylated and dihydrodiol metabolites of phenytoin in urine by high-performance liquid chromatography 535(1990)279

Pheophorbide a

High-performance liquid chromatography-continuous-flow fast atom bombardment mass spectrometry of chlorophyll derivatives 542(1991)373

Pheophytins

High-performance liquid chromatography-continuous-flow fast atom bombardment mass spectrometry of chlorophyll derivatives 542(1991)373

Pheromones

Analysis of some synthetic insect pheromones by gas-liquid chromatography 509(1990)69

Sample introduction in gas chromatography: simple method for the solventless introduction of crude samples of biological origin 518(1990)207

Liquid crystals for the gas chromatographic determination of the stereochemistry of insect sex pheromones 537(1991)482

Phloxin

Dynamic impregnation of silica stationary phases for the argentation chromatography of lipids 519(1990)349

Phloxine B

Preparative purification of tetrabromotetrachlorofluorescein and Phloxine B by centrifugal counter-current chromatography 538(1991)157

Pholcodine

Determination of pholcodine and its metabolites in urine by capillary gas chromatography 532(1990)277

Phomalirazine

Rapid high-performance liquid chromatographic analysis of phytotoxins from *Phoma lingam* 519(1990)383

Phosgene

Chromatographic analysis of chemical warfare agents (Review) 503(1990)293

Determination of phosgene as its N,N,N',N'-tetraethylurea derivative by gas chromatography 538(1991)435

Phosphamidon

Thin-layer chromatographic detection of endosulfan and phosphamidon by use of cobalt acetate and *o*-tolidine 519(1990)268

Phosphate

Comparative analysis of organic acids located on the surface of natural building stones by high-performance liquid, gas and ion chromatography 514(1990)241

Isotachophoretic separation of organic acids in biological fluids 516(1990)251

Analysis of anion constituents of urine by inorganic capillary electrophoresis 546(1991)459

Phosphatidic acids

Behaviour of vegetable phospholipids in thin-layer chromatography. Optimization of mobile phase, detection and direct evaluation 502(1990)385

Phosphatidylcholine

Behaviour of vegetable phospholipids in thin-layer chromatography. Optimization of mobile phase, detection and direct evaluation 502(1990)385

Separation and determination of molecular species of phosphatidylcholine in biological samples by high-performance liquid chromatography 507(1990)339

Binding of lysozyme on the surface of entrapped phosphatidylserine–phosphatidylcholine vesicles and an example of high-performance lipid vesicle surface chromatography 512(1990)377

Fractionation of egg and soybean phosphatidylcholines by silver resin chromatography 538(1991)469

Phosphatidylethanolamines

Behaviour of vegetable phospholipids in thin-layer chromatography. Optimization of mobile phase, detection and direct evaluation 502(1990)385

Phosphatidylinositols

Behaviour of vegetable phospholipids in thin-layer chromatography. Optimization of mobile phase, detection and direct evaluation 502(1990)385

Phosphatidylserine

Binding of lysozyme on the surface of entrapped phosphatidylserine–phosphatidylcholine vesicles and an example of high-performance lipid vesicle surface chromatography 512(1990)377

Phosphine oxides

Analysis of *n*-octyl(phenyl)-*N,N*-diisobutylcarbamoylmethylphosphine oxide and TRUEX process solvent by gas and liquid chromatography 516(1990)395

Chiral stationary phases derived from tyrosine (Review) 550(1991)357

Phosphines, sulphonated

Chiral sulphonated phosphines. IV. High-performance liquid chromatographic separation of sulphonated phosphines 514(1990)91

2–5A Phosphodiesterase

Isotachophoretic determination of 2–5A phosphodiesterase 545(1991)407

Phosphofructokinase

Use of an activated nylon membrane (Immunodyne) as an affinity adsorbent for the purification of phosphofructokinase and phosphoglycerate kinase from yeast 502(1990)171

6-Phosphogluconate dehydrogenase

Screening method for large numbers of dye-adsorbents for enzyme purification 510(1990)155

Phosphoglycerate kinase

Use of an activated nylon membrane (Immunodyne) as an affinity adsorbent for the purification of phosphofructokinase and phosphoglycerate kinase from yeast 502(1990)171

Phosphogypsum

Investigation of phase transitions in the $\text{CaSO}_4(\text{s})\text{--H}_2\text{O}(\text{g})$ system by chromatographic methods 520(1990)157

Phospholipase A₂ analogues

Simple fractionation of phospholipase A₂ analogues from snake venom by high-performance liquid chromatography 530(1990)129

Phospholipase-C

Purification of phospholipase-C from *Bacillus cereus* by affinity chromatography on 2-(4-aminophenylsulphonyl)ethyl-cellulose 525(1990)307

Phospholipids

Behaviour of vegetable phospholipids in thin-layer chromatography. Optimization of mobile phase, detection and direct evaluation 502(1990)385

Separation of the enantiomeric intermediates of some platelet-activating factor analogues on a naphthylalanine-type Pirkle column 506(1990)611

Quantitative determination of cholesterol in liposome drug products and raw materials by high-performance liquid chromatography 507(1990)157

Isolation and purification of lecithin by preparative high-performance liquid chromatography 517(1990)219

Sensitive analysis of phospholipid molecular species by high-performance liquid chromatography using fluorescent naproxen derivatives of diacylglycerols 518(1990)157

Quantitation of hexadecylphosphocholine by high-performance thin-layer chromatography with densitometry 525(1990)85

Solid-phase extraction on silica cartridges as an aid to platelet-activating factor enrichment and analysis 526(1990)11

Improved one-dimensional thin-layer chromatography for the separation of phospholipids in biological material 533(1990)297

Fractionation of egg and soybean phosphatidylcholines by silver resin chromatography 538(1991)469

Interactions of the mitochondrial membrane rat liver D-3-hydroxybutyrate dehydrogenase with glass beads during adsorption chromatography. Relationships with the activation of the enzyme by phospholipids 539(1991)279

Determination of phospholipids on two-dimensional thin-layer chromatographic plates by imaging densitometry 543(1991)201

H-Phosphonates

Rapid and sensitive determination of nucleoside H-phosphonates and inorganic H-phosphonates by high-performance liquid chromatography coupled with flow-injection analysis 507(1990)103

Phosphonoformic acid

Determination of phosphonoformic acid in human plasma and urine by high-performance liquid chromatography with electrochemical detection 525(1990)133

Phosphopeptides

Immobilized Fe³⁺ affinity chromatographic isolation of phosphopeptides 539(1991)425

Phosphoproteins

Separation of phosphoproteins by fast protein liquid chromatography 527(1990)152

Phosphoric acid

Utilization of capillary isotachopheresis in the determination of organic acids in food 509(1990)283

Isotachopheretic separation of organic acids in biological fluids 516(1990)251

Phosphorothioate oligodeoxynucleotides

High-performance liquid chromatographic analysis of phosphorothioate analogues of oligodeoxynucleotides in biological fluids 533(1990)133

Phosphorothioate oligonucleotides

Analytical study of phosphorothioate analogues of oligodeoxynucleotides using high-performance liquid chromatography 509(1990)396

Phosphorus

The speciation of iron, manganese, phosphorus and platinum in aqueous solutions by using ion chromatography coupled with an element selective detector 547(1991)211

Phosphorus oxychloride

Determination of impurities in thionyl chloride by gas chromatography 520(1990)163

Phosvettes

Preparation and rapid resolution of *Xenopus* phosvitins and phosvettes by high-performance liquid chromatography 519(1990)75

Phosvitins

Preparation and rapid resolution of *Xenopus* phosvitins and phosvettes by high-performance liquid chromatography 519(1990)75

o-Phthalaldehyde

Automated precolumn derivatization of amino acids with *ortho*-phthalaldehyde using a hollow-fibre membrane reactor 502(1990)317

Phthalates

Optimization of the isocratic high-performance liquid chromatographic separation of selected phthalates using the overlapping resolution mapping technique 513(1990)360

Separation of phthalates by micellar electrokinetic chromatography 542(1991)473

Phthalides

Applications of high-speed counter-current chromatography for the separation and isolation of natural products 538(1991)193

4-(N-Phthalimidyl)benzenesulphonyl chloride

Phthalimidylbenzenesulphonyl chlorides as fluorescence labelling reagents for amino acids in high-performance liquid chromatography 502(1990)178

Phthalocyanine dilithium

Modified sorbents in binary stationary phase systems in gas chromatography 508(1990)193

Phyllostine

Applications of high-performance liquid chromatography to quantitation of metabolites and enzymes of the patulin pathway from *Penicillium patulum* 513(1990)237

Physostigmine

High-performance liquid chromatographic enantioseparation of intermediates relating to the

total synthesis of (-)-physostigmine
523(1990)317

Simultaneous determination of physostigmine and tetrahydroaminoacridine in a transdermal permeation study by high-performance liquid chromatography 526(1990)87

Sensitive analysis of plasma physostigmine levels using dual-cell electrochemistry in the redox mode 526(1990)97

Phytoalexins

Separation and identification of phytoalexins from leaves of groundnut (*Arachis hypogaea*) and development of a method for their determination by reversed-phase high-performance liquid chromatography 547(1991)185

Phytoecdysteroids

Efficient determination of phytoecdysteroids from *Ajuga* species and *Polypodium vulgare* by high-performance liquid chromatography 514(1990)199

Phytosterols

Gas chromatographic determination of sterols in fat-soluble concentrates obtained from plant materials 509(1990)79

Phytotoxins

Rapid high-performance liquid chromatographic analysis of phytotoxins from *Phoma lingam* 519(1990)383

Piaselenoles

Cyclic arylenesazachalogenenes. IV. Gas chromatographic properties of polyfluorinated 2,1,3-benzoselenadiazoles 549(1991)429

Picene

Anomalous behavior of selected methyl-substituted polycyclic aromatic hydrocarbons in reversed-phase liquid chromatography 514(1990)111

β -Picoline

Capillary tube isotachophoretic separation of niacin derivatives 521(1990)158

Picric acid

Isotachophoretic analyser equipped with a scanning ultraviolet photometric detection system 538(1991)403

Pigments

Sedimentation field-flow fractionation for pigment quality assessment 517(1990)395

Comparative study of the reversed-phase high-performance liquid chromatography of black tea liquors with special reference to the thearubigins 542(1991)115

Resolution of lutein and zeaxanthin using a non-encapped, lightly carbon-loaded C_{18} high-performance liquid chromatographic column 543(1991)137

Pindolol

Separation of the enantiomers of β -receptor blocking agents and other cationic drugs using a CHIRAL-AGP® column. Binding properties and characterization of immobilized α_1 -acid glycoprotein 519(1990)285

Chiral stationary phase for the facile resolution of β -adrenoceptor blocking agents 521(1990)122

Comparison of a new ovomucoid and a second-generation α_1 -acid glycoprotein-based chiral column for the direct high-performance liquid chromatography resolution of drug enantiomers 545(1991)43

α -Pinene

Analysis of packaged orange juice volatiles using headspace gas chromatography 540(1991)456

Approach to direct chiral recognition of some terpenic hydrocarbon constituents of essential oils by gas chromatography systems via β -cyclodextrin complexation 543(1991)171

β -Pinene

Approach to direct chiral recognition of some terpenic hydrocarbon constituents of essential oils by gas chromatography systems via β -cyclodextrin complexation 543(1991)171

Pipecuronium bromide

Analysis of steroids. XLI. Ion-pair high-performance liquid chromatographic separation of quaternary ammonium steroids on silica 550(1991)639

Piperidine

Determination of methamphetamine, amphetamine and piperidine in human urine by high-performance liquid chromatography with chemiluminescence detection 515(1990)459

Piracetam

Determination of piracetam in serum by gas chromatography 526(1990)556

Piromidic acid

Simultaneous determination of residual synthetic antibacterials in fish by high-performance liquid chromatography 538(1991)484

Piroxicam

Liquid chromatography with amperometric detection for the determination of non-steroidal anti-inflammatory drugs in plasma 533(1990)125

Planar molecules

Silicas chemically bonded with multidentate phenyl groups as stationary phases in reversed-phase liquid chromatography used for non-planarity recognition of polycyclic aromatic hydrocarbons 517(1990)193

Plant hormones

see also Auxins and Indoles

Semi-automated method for the determination of abscisic acid in crude plant extracts 503(1990)459

Gradient C₁₈ high-performance liquid chromatography of gibberellins 543(1991)471

Plasmalogens

Simple method for the analysis of glycerol enol ethers derived from plasmalogens in complex lipid mixtures and subsequent determination of the aldehydic components by gas chromatography-mass spectrometry 526(1990)303

Plasmids

New family of high-resolution ion exchangers for protein and nucleic acid purifications from laboratory to process scales 535(1990)127

Analysis and purification of DNA restriction fragments by high-performance liquid chromatography 548(1991)281

Plasminogen

Tresyl-activated support for high-performance affinity chromatography 510(1990)101

Specific adsorption of serine proteases on coated silica beads substituted with amidine derivatives 510(1990)123

Tryptic fingerprinting on a poly(styrene-divinylbenzene) reversed-phase column 512(1990)315

Affinity purification of plasminogen by radial-flow affinity chromatography 539(1991)531

Plasminogen activator, hybrid

Purification of a hybrid plasminogen activator protein 539(1991)485

Platelet-activating factor

Separation of the enantiomeric intermediates of some platelet-activating factor analogues on a naphthylalanine-type Pirkle column 506(1990)611

Solid-phase extraction on silica cartridges as an aid to platelet-activating factor enrichment and analysis 526(1990)11

Detection of lyso-platelet-activating factor by high-performance liquid chromatography after derivatisation with fluorescent fatty acids 527(1990)303

Platelet-activating factor antagonist

Determination of a platelet activating factor antagonist (CV-3988): methodology and clinical application 526(1990)515

Platinum

The speciation of iron, manganese, phosphorus and platinum in aqueous solutions by using ion chromatography coupled with an element selective detector 547(1991)211

Platyfylliside

Chemical characteristics of herbivore defenses in *Betula pendula* winter-dormant young stems 547(1991)367

Polar compounds

Normal-phase high-performance liquid chromatographic analysis of polyhydroxysteroids using non-polar bonded silica columns 505(1990)408

Headspace analysis of polar compounds in air 509(1990)107

Reversed-phase liquid chromatographic column switching for the trace-level determination of polar compounds. Application to chloroallyl alcohol in ground water 511(1990)243

Reversed-phase liquid chromatography of polar benzene derivatives on poly(vinylbenzo-18-crown-6)-immobilized silica as a stationary phase 522(1990)107

Development of a phase system for intermediate polarity compounds in centrifugal partition chromatography 547(1991)69

Polar drugs

Comparison of retention index scales based on alkyl aryl ketones, alkan-2-ones and 1-nitroalkanes for polar drugs on reversed-phase high-performance liquid chromatography 537(1991)51

Pollen

Allergenic fragments in *Parietaria judaica* pollen extract 542(1991)337

Pollutants

Continuous automatic monitoring of volatile organic compounds in aqueous streams by a modified purge-and-trap system 549(1991)335

Pollutants, organic

Thermal desorption of organic pollutants enriched on activated carbon. V. Desorption behaviour and temperature profile 520(1990)131

Polyacrylates

Fate of superabsorbents in the environment. Analytical techniques 513(1990)93

Polyalkylenes

Polyalkylenes used as stationary phases for preparative reversed-phase liquid chromatography 520(1990)263

Polyamide

Examination of organic trace contamination and thermo-oxidative deterioration of ϵ -caprolactam by high-performance liquid chromatography 508(1990)149

Novel media for chromatography and immobilization using a radiation grafting technique 510(1990)115

Polyamine oxidase

Reversed-phase high-performance liquid chromatographic method for the measurement of polyamine oxidase activity 533(1990)187

Polyamines

Separation of spermidine derivatives by reversed-phase high-performance liquid chromatography using a UV-absorbing counter ion 508(1990)229

High-performance liquid chromatographic method for the determination of dansyl-polyamines 511(1990)177

Investigation of interfering products in the high-performance liquid chromatographic determination of polyamines as benzoyl derivatives 518(1990)264

Allinity chromatographic isolation of a major polyamine binding protein from serum and placenta, identified as serum albumin 527(1990)146

Liquid chromatography-mass spectrometry studies of 9-fluorenylmethyl chloroformate derivatives of polyamines 540(1991)199

Polyaminocarboxylic acid

Capillary tube isotachophoretic separation of lanthanide complexes using polyaminocarboxylic acid as terminating ion 540(1991)475

Polyamino ligands

Coupling of mono- and polyamino ligands to solid phases by nucleophilic attack on coupling groups that may be spontaneously hydrolysed 525(1990)246

Polyaromatic compounds

Physicochemical model of retention for capillary supercritical fluid chromatography 505(1990)79

Use of high-performance liquid chromatography in the pharmaceutical industry 507(1990)141

Structure-retention correlation in liquid chromatography (Review) 550(1991)313

Polybrene

Effect of polymer ion concentrations on migration velocities in ion-exchange electrokinetic chromatography 515(1990)667

Polycarboxylic acids

Role of additives in packed column supercritical fluid chromatography: suppression of solute ionization 547(1991)377

Polychlorinated benzenes

Analyses of polychlorinated dibenzo-*p*-dioxins and dibenzofurans and precursors in fly ash samples collected at different points in post-combustion zone of Japanese machida incinerator 511(1990)281

Polychlorinated biphenyls

Isolation of toxic polychlorinated biphenyls by electron donor-acceptor high-performance liquid chromatography on a 2-(1-pyrenyl) ethyldimethylsilylated silica column 507(1990)389

Separation of highly hydrophobic compounds by cyclodextrin-modified micellar electrokinetic chromatography 516(1990)23

Supercritical fluid chromatography of polychlorinated biphenyls on packed columns 522(1990)267

Separation of polychlorinated terphenyls from lipoidal material by preparative gel permeation chromatography and gas chromatography 539(1991)149

Polychlorinated dibenzo-*p*-dioxins

Gas chromatographic determination of polychlorinated dibenzo-*p*-dioxins in wood preservatives 502(1990)160

Analyses of polychlorinated dibenzo-*p*-dioxins and dibenzofurans and precursors in fly ash samples collected at different points in post-combustion zone of Japanese machida incinerator 511(1990)281

Extraction and clean-up procedure for polychlorinated dibenzo-*p*-dioxins and dibenzofurans in fly ash from municipal solid waste incinerators 523(1990)265

Gas chromatographic separations of all 136 tetra- to octa-polychlorinated dibenzo-*p*-dioxins and polychlorinated dibenzofurans on nine different stationary phases 541(1991)131

Dual-column high-performance liquid chromatographic cleanup procedure for the determination of polychlorinated dibenzo-*p*-dioxins and dibenzofurans in fish tissue 543(1991)49

Polychlorinated dibenzofurans

Analyses of polychlorinated dibenzo-*p*-dioxins and dibenzofurans and precursors in fly ash samples collected at different points in post-combustion zone of Japanese machida incinerator 511(1990)281

Extraction and clean-up procedure for polychlorinated dibenzo-*p*-dioxins and dibenzofurans in fly ash from municipal solid waste incinerators 523(1990)265

Gas chromatographic separations of all 136 tetra- to octa-polychlorinated dibenzo-*p*-dioxins and polychlorinated dibenzofurans on nine different stationary phases 541(1991)131

Dual-column high-performance liquid chromatographic cleanup procedure for the determination of polychlorinated dibenzo-*p*-dioxins and dibenzofurans in fish tissue 543(1991)49

Polychlorinated phenols

Analyses of polychlorinated dibenzo-*p*-dioxins and dibenzofurans and precursors in fly ash samples collected at different points in post-combustion zone of Japanese machida incinerator 511(1990)281

Polychlorinated terphenyls

Separation of polychlorinated terphenyls from lipoidal material by preparative gel permeation chromatography and gas chromatography 539(1991)149

Poly[(chloromethoxytrialanine methyl ester)-phosphazene]

Liquid chromatographic analysis of a potential polymeric-pendant drug delivery system for peptides. Application of high-performance size-exclusion chromatography, reversed-phase high-performance liquid chromatography and ion chromatography to the evaluation of biodegradable poly[(chloromethoxytrialanine methyl ester)phosphazenes] 536(1991)255

Polyclonal antibodies

Effect of antigen size on optimal ligand density of immobilized antibodies for a high-performance liquid chromatographic support 548(1991)243

Polycyclic aromatic hydrocarbons

see Polynuclear aromatic hydrocarbons

Polycyclic hydrocarbons

High-performance liquid chromatographic method for the determination of polycyclic hydrocarbon metabolite distributions 530(1990)337

Poly(diallyldimethylammonium chloride)

Effect of polymer ion concentrations on migration velocities in ion-exchange electrokinetic chromatography 515(1990)667

Polydimethyl silicones

Ion mobility detection of polydimethylsilicone oligomers following supercritical fluid chromatographic separation 505(1990)215

Polyelectrolytes

Solution properties of polyelectrolytes. VII. Non-ideal mechanisms in size-exclusion chromatography of synthetic polyions, peptides and proteins 548(1991)93

Polyenoic acids

Identification of very long polyenoic acids as picolinyl esters by Ag⁺ ion-exchange high-performance liquid chromatography, reversed-

phase high-performance liquid chromatography and gas chromatography-mass spectrometry 513(1990)344

Polyesters

Phase transition chromatography of polyesters on macroporous glycidyl methacrylate-ethylene dimethacrylate copolymers 509(1990)233

Polyethers

Chromatographic investigations of macromolecules in the "critical range" of liquid chromatography. I. Functionality type and composition distribution in polyethylene oxide and polypropylene oxide copolymers 523(1990)91

Polymer ligands for mild hydrophobic interaction chromatography—principles, achievements and future trends (Review) 539(1991)297

Polyethylene

Gel permeation chromatography-Fourier transform infrared study of some synthetic polymers. II. Instrumentation for the characterization of polyethylene 517(1990)209

Automatic sampler for Curie-point pyrolysis-gas chromatography with on-column introduction of pyrolysates 518(1990)9

Probability method for pyrolysis gas chromatographic data treatment and elaboration of a computer system for the identification of polymers 520(1990)121

Polyethylene glycol adipate

Modified sorbents in binary stationary phase systems in gas chromatography 508(1990)193

Polyethylene glycols

Isotachophoretic separation of alkali and alkaline earth metal cations in water-polyethylene glycol mixtures 502(1990)143

Surface affinity chromatographic separation of blood cells. VII. Relationship between capacity factors of human peripheral blood cells and the rate of penetration of liquids into xerogel column packings 504(1990)69

Settling-time dependence of rat bone marrow cell partition and counter-current distribution in charge-sensitive aqueous two-phase systems. Relationship with the cell partitioning mechanism 504(1990)79

Supercritical fluid chromatography with light-scattering detection. I. Preliminary results of the analysis of polar compounds with packed columns 505(1990)191

Effect of polyethylene glycol on the non-specific adsorption of proteins to Eupergit C and agarose 510(1990)271

Aqueous two-phase systems with increased density for partition of heavy particles 522(1990)235

Determination of size limits of membrane separation in vesicle chromatography by fractionation of polydisperse dextran 542(1991)239

Partitioning of cells in dextran-poly(ethylene glycol) aqueous phase systems. A study of settling time, vessel geometry and sedimentation effects on the efficiency of separation 542(1991)397

Polyethylene oxide

Chromatographic investigations of macromolecules in the "critical range" of liquid chromatography. I. Functionality type and composition distribution in polyethylene oxide and polypropylene oxide copolymers 523(1990)91

Polyfluorinated 2,1,3-benzoselenadiazoles

Cyclic arylenazachalogenenes. IV. Gas chromatographic properties of polyfluorinated 2,1,3-benzoselenadiazoles 549(1991)429

Polyhydroxy compounds

Speciation of polyhydroxy compounds by gas chromatography-mass spectrometry with deuterium oxide chemical ionization 520(1990)209

Polymer additives

Quantitative analysis of additives in polymers using coupled supercritical fluid extraction-supercritical fluid chromatography 505(1990)273

Characterization of polymer additives by supercritical fluid chromatography and by liquid chromatography 505(1990)283

Pyrolytic analysis of complex stabilizers in polypropylene 505(1990)375

Retention prediction for polymer additives in reversed-phase liquid chromatography 550(1991)325

Polymers

Preliminary results on the gas chromatographic evaluation of interpenetrating polymer networks prepared from porous polymer beads 502(1990)393

Achievements and uses of critical conditions in the chromatography of polymers 507(1990)487

Analysis of poly(styrene-co-methyl acrylate) and poly(styrene-co-butyl acrylate) by high-performance liquid chromatography 508(1990)319

Determination of polymer polydispersity by gel permeation chromatography 509(1990)219

Theoretical aspects of the chromatographic analysis of heterogeneous polymers 511(1990)49

Degradation and analysis of commercial polyoxyethylene glycol mono(4-alkylphenyl) ethers 511(1990)325

Molecular recognition in synthetic polymers: preparation of chiral stationary phases by molecular imprinting of amino acid amides 513(1990)167

Behaviours of siloxane polymers containing phenyl or silylene as stationary phases for high-temperature gas chromatography 514(1990)259

Applications of semi-micro supercritical fluid chromatography with gradient elution to synthetic oligomer separation 515(1990)629

Fabrication of columns for open-tubular liquid chromatography using photopolymerization of acrylates 516(1990)301

Enantiomeric resolution on molecularly imprinted polymers prepared with only non-covalent and non-ionic interactions 516(1990)313

Enantiomeric resolution of amino acid derivatives on molecularly imprinted polymers as monitored by potentiometric measurements 516(1990)323

Gel permeation chromatography-Fourier transform infrared study of some synthetic polymers. II. Instrumentation for the characterization of polyethylene 517(1990)209

Retention effects in thermal field-flow fractionation 517(1990)377

Characterization of polymers by thermal field-flow fractionation 517(1990)405

Automatic sampler for Curie-point pyrolysis-gas chromatography with on-column introduction of pyrolysates 518(1990)9

Application de la dérivation par l'isocyanate de phényle à l'analyse chromatographique de molécules phénoliques (antioxydants) 519(1990)337

Determination of residual acrylamide monomer in solution and emulsion polymers by column-switching high-performance liquid chromatography 519(1990)363

Probability method for pyrolysis gas chromatographic data treatment and elaboration of a computer system for the identification of polymers 520(1990)121

Chromatographic investigations of macromolecules in the "critical range" of liquid chromatography. I. Functionality type and composition distribution in polyethylene oxide and polypropylene oxide copolymers 523(1990)91

Cation-exchange high-performance liquid chromatography of synthetic salmon calcitonin 536(1991)123

Evaluation of chemical structural heterogeneity of cationic acrylamide copolymers by high-performance liquid chromatography 536(1991)203

Polymer ligands for mild hydrophobic interaction chromatography—principles, achievements and future trends (Review) 539(1991)297

Separation and detection of styrene-alkyl methacrylate and ethyl methacrylate-butyl methacrylate copolymers by liquid adsorption chromatography using a dichloroethane mobile phase and a UV detector 541(1991)375

Study of polystyrene-poly(ethylene oxide) block copolymer micelles in aqueous solution by size-exclusion chromatography 547(1991)434

Separation of copolymers according to composition with special emphasis on the effect of block structure 550(1991)629

Hydrodynamic and size-exclusion chromatography of polymers on porous particles 550(1991)721

Quantitative particle-size distributions by sedimentation field-flow fractionation with densimeter detector 550(1991)799

Polymethoxylated flavones

Gas chromatography of some polymethoxylated flavones and their determination in orange peel oils 549(1991)440

Poly(methyl methacrylate)

Characterization of polymers by thermal field-flow fractionation 517(1990)405

Poly(methyl methacrylate-styrene)

Sample remaining in an ODS column after compositional fractionation of copolymers by high-performance liquid chromatography 547(1991)429

Polynuclear aromatic hydrocarbons

Optimization of mobile phase composition for high-performance liquid chromatographic separation by means of the overlapping resolution mapping scheme 506(1990)245

Long-term use of liquid-crystalline stationary phase for separation and determination of polynuclear aromatic hydrocarbons in carbochemical products. Comparison of results obtained by different methods 509(1990)53

Anomalous behavior of selected methyl-substituted polycyclic aromatic hydrocarbons in reversed-phase liquid chromatography 514(1990)111

Separation of highly hydrophobic compounds by cyclodextrin-modified micellar electrokinetic chromatography 516(1990)23

Fabrication of columns for open-tubular liquid chromatography using photopolymerization of acrylates 516(1990)301

Retention of benzo[*a*]pyrene on cyclodextrin-bonded phases 516(1990)355

Silicas chemically bonded with multidentate phenyl groups as stationary phases in reversed-phase liquid chromatography used for non-planarity recognition of polycyclic aromatic hydrocarbons 517(1990)193

Separation of phenols and aromatic hydrocarbons from biomass tar using aminopropylsilane normal-phase liquid chromatography 538(1991)303

Capillary gas chromatographic and combined gas chromatography-mass spectrometric study of the volatile fraction of a coal tar pitch using OV-1701 stationary phase 539(1991)157

Polar bonded phase with the zwitterionic sulfobetaine functional group. Comparison to silica 544(1990)113

Factors governing the analytical supercritical fluid extraction and supercritical fluid chromatographic retention of polycyclic aromatic hydrocarbons 545(1991)149

Use of Ce(IV) oxidizing agent for the derivatization of polycyclic aromatic hydrocarbons for liquid chromatography-electrochemical detection 550(1990)585

Polynuclear aromatic hydrocarbons, nitrated

Effect of temperature and organic modifier on the isocratic retention characteristics of nitrated polycyclic aromatic hydrocarbons on a reversed-phase octadecylsilane column 513(1990)117

High-performance liquid chromatography retention index and detection of nitrated polycyclic aromatic hydrocarbons 539(1991)1

Polynucleotides

High-performance affinity chromatography of DNA 508(1990)279

Capillary gel electrophoresis for DNA sequencing. Laser-induced fluorescence detection with the sheath flow cuvette 516(1990)61

High-performance liquid chromatography of synthetic oligonucleotides. A new affinity protecting group 549(1991)207

Polyol dehydrogenase

Affinity gel interactions of alcohol and polyol dehydrogenases: anomalous behaviour and structural correlations 502(1990)69

Polyps

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

Polyoxyethylene

Degradation and analysis of commercial polyoxyethylene glycol mono(4-alkylphenyl) ethers 511(1990)325

Applications of semi-micro supercritical fluid chromatography with gradient elution to synthetic oligomer separation 515(1990)629

Semipermeable-surface reversed-phase media for high-performance liquid chromatography 544(1991)25

Polyoxyethylene(23)dodecanol

Micellar electrokinetic chromatography employing sodium alkyl sulfates and Brij 35* 517(1990)549

Polyoxyethylene glycol mono(4-alkylphenyl) ethers

Degradation and analysis of commercial polyoxyethylene glycol mono(4-alkylphenyl) ethers 511(1990)325

Polypeptides

Characterization of chemically synthesized human relaxin by high-performance liquid chromatography 508(1990)81

High-performance liquid chromatographic separation and partial characterization of the α - and β -chains of Alaskan sockeye salmon hemoglobin 512(1990)291

Peptide mapping of HIV polypeptides expressed in *Escherichia coli*. Quality control of different batches and identification of tryptic fragments containing residues of aromatic amino acids or cysteine 512(1990)325

Recent developments in electrophoretic methods (Review) 516(1990)3

Identification of aprotinin degradation products by the use of high-performance capillary electrophoresis, high-pressure liquid chromatography and mass spectrometry 516(1990)175

High-performance liquid chromatography of rat and mouse islet polypeptides: potential risk of oxidation of methionine residues during sample preparation 530(1990)29

Application of preparative high-performance liquid chromatography to the purification of a fetal ovine insulin-like growth factor II: N-terminal sequence determinations using two different carriers 533(1990)35

Chronic myelogenous leukaemia-associated polypeptide in platelets detected by two-dimensional polyacrylamide gel electrophoresis 533(1990)207

Performance of wide-pore silica- and polymer-based packing materials in polypeptide separation: effect of pore size and alkyl chain length 535(1990)13

Use of polymeric reversed-phase columns for the characterization of polypeptides extracted from human pancreata. I. Effect of the mobile phase 542(1991)65

Use of polymeric reversed-phase columns for the characterization of polypeptides extracted from human pancreata. II. Effect of the stationary phase 542(1991)83

Ion-exchange high-performance liquid chromatography of nucleotides and polypeptides on new types of ion-exchange sorbents, based on polystyrene-coated silicas 548(1991)207

Polyphenolic compounds

Counter-current chromatography of black tea infusions 505(1990)357

Polyphosphates, cyclic

Determination of trimetaphosphate in pyrophosphate by capillary isotachopheresis 516(1990)473

Computer-assisted retention prediction system for inorganic cyclic polyphosphates and its application to optimization of gradients in anion-exchange chromatography 550(1991)5

Polypropylene

Pyrolytic analysis of complex stabilizers in polypropylene 505(1990)375

Study of rapid reaction kinetics by computerized gas chromatography with stroboscopic sampling 517(1990)175

Automatic sampler for Curie-point pyrolysis-gas chromatography with on-column introduction of pyrolysates 518(1990)9

Probability method for pyrolysis gas chromatographic data treatment and elaboration of a computer system for the identification of polymers 520(1990)121

Polysaccharide-protein conjugates

Chromatographic separation and examination of carbohydrate and phenolic components of the non-tannin fraction of black wattle (*Acacia mearnsii*) bark extract 550(1991)519

Polysaccharides

Studies on the chromatographic behaviour of some uronic acids and neutral sugars on an amino-bonded phase column 513(1990)227

Macroporous synthetic hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1991)249

Stability of Superdex 75 prep grade and Superdex 200 prep grade under different chromatographic conditions 547(1991)21

Chromatographic separation and examination of carbohydrate and phenolic components of the non-tannin fraction of black wattle (*Acacia mearnsii*) bark extract 550(1991)519

Polysiloxane

Applications of semi-micro supercritical fluid chromatography with gradient elution to synthetic oligomer separation 515(1990)629

Polystyrene

Effect of polystyrene coating on pore, structural and chromatographic properties of silica packings 506(1990)391

Hydrodynamic chromatography of macromolecules on small spherical non-porous silica particles 506(1990)547

Determination of polymer polydispersity by gel permeation chromatography 509(1990)219

Particle characterization in centrifugal fields. Comparison between ultracentrifugation and sedimentation field-flow fractionation 517(1990)361

Characterization of polymers by thermal field-flow fractionation 517(1990)405

Probability method for pyrolysis gas chromatographic data treatment and elaboration of a computer system for the identification of polymers 520(1990)121

Problems in the size-exclusion chromatography of cellulose nitrates: non-exclusion effects and universal calibration 522(1990)67

Reversed-phase gradient elution behaviour of polystyrenes in a dichloromethane-methanol solvent system 543(1991)157

Quantitative particle-size distributions by sedimentation field-flow fractionation with densimeter detector 550(1991)799

Poly(styrene-co-butyl acrylate)

Analysis of poly(styrene-co-methyl acrylate) and poly(styrene-co-butyl acrylate) by high-performance liquid chromatography 508(1990)319

Poly(styrene-co-divinylbenzene)

Monosized polymer particles in size-exclusion chromatography. I. Toluene as solvent 514(1990)1

Poly(styrene-co-methyl acrylate)

Analysis of poly(styrene-co-methyl acrylate) and poly(styrene-co-butyl acrylate) by high-performance liquid chromatography 508(1990)319

Poly(styrene-dimethylsiloxane)

Poly(styrene-dimethylsiloxane) block copolymer as a stationary phase for capillary gas chromatography 511(1990)390

Polystyrene latex

Effects of ionic strength of eluent on size analysis of sub-micrometre particles by sedimentation field-flow fractionation 515(1990)27

Polystyrene-poly(ethylene oxide)

Study of polystyrene-poly(ethylene oxide) block copolymer micelles in aqueous solution by size-exclusion chromatography 547(1991)434

Polystyrene-vinyl acetate

Separation of poly(styrene-vinyl acetate) block copolymers by liquid adsorption chromatography 503(1990)411

Poly(2-sulphoethylaspartamide)-silica

Separation of fragments from human serum albumin and its charged variants by reversed-phase and cation-exchange high-performance liquid chromatography 512(1990)165

Poly Tame

Liquid chromatographic analysis of a potential polymeric-pendant drug delivery system for peptides. Application of high-performance size-exclusion chromatography, reversed-phase high-performance liquid chromatography and ion chromatography to the evaluation of biodegradable poly[(chloromethoxy)trialanine methyl ester]phosphazenes] 536(1991)255

Polyunsaturated fatty acids

Nervonic acid *versus* tricosanoic acid as internal standards in quantitative gas chromatographic analyses of fish oil longer-chain *n*-3 polyunsaturated fatty acid methyl esters 533(1990)1

Polyuronides

Increasing the purity of polyuronic sorbents
509(1990)239

Poly(vinyl alcohol)

Chromatographic characteristics of nucleic acid
components on vinyl alcohol copolymer gel
columns 506(1990)145

Novel media for chromatography and
immobilization using a radiation grafting
technique 510(1990)115

Application of high-performance liquid
chromatography in establishing an accurate index
of blood glucose control 515(1990)531

Poly(vinyl chloride)

Determination of phenol in poly(vinyl chloride)
507(1990)417

Gas chromatographic study of interaction
between vinyl chloride and poly(vinyl chloride)
550(1991)171

Polyvinylpyrrolidone

Characterization of humified compounds by
extraction and fractionation on solid
polyvinylpyrrolidone 509(1990)141

Poly(vinylsulphonic acid), sodium salt

Use of the sodium salt of poly(vinylsulfonic acid)
as a low-molecular-weight displacer for protein
separations by ion-exchange displacement
chromatography 519(1990)87

Porous graphitic carbon

Separation of anionic and cationic compounds of
biomedical interest by high-performance liquid
chromatography on porous graphitic carbon
515(1990)183

Porphobilinogen

Micro assay for urinary δ -aminolevulinic acid and
porphobilinogen by high-performance liquid
chromatography with pre-column derivatization
527(1990)134

Porphyrins

High-performance thin-layer chromatography of
rare earth tetraphenylporphine complexes
504(1990)179

Separation of porphyrins on cyclodextrin-bonded
phases with a novel mobile phase 508(1990)375

Capillary electrophoresis of urinary porphyrins
with absorbance and fluorescence detection
516(1990)271

Determination of hydroxy and peroxy acid
derivatives of uroporphyrin in the plasma of
patients with congenital erythropoietic porphyria
by high-performance liquid chromatography
550(1991)603

Potassium

Optimization of the procedure for the
determination of alkali and alkaline-earth
elements in sea water by suppressed ion
chromatography 546(1991)259

Potassium iodide

Reversed-phase high-performance liquid
chromatographic separation of tertiary and
quaternary alkaloids from *Chelidonium majus* L.
543(1991)123

Potassium isotopes

Fractionation of potassium isotopes in cation-
exchange chromatography 538(1991)355

Potassium persulphate

Optimized high-performance liquid
chromatographic procedure for the separation
and quantification of the main folacins and some
derivatives. I. Chromatographic system
540(1991)207

Praseodymium

Peak interactions under concave isotherm
conditions in preparative ion chromatography
546(1991)27

Preservatives

Determination of preservatives in cosmetic
products by reversed-phase high-performance
liquid chromatography. IV 508(1990)252

Prevan

Reversed-phase high-performance liquid
chromatography applied to the direct analysis of
untreated heterophasic systems 507(1990)403

Prilocaine

Liquid chromatographic determination of
felypressin using a column-switching technique
and post-column derivatization 521(1990)141

Determination of prilocaine in human plasma
samples using high-performance liquid
chromatography with dual-electrode
electrochemical detection 526(1990)215

Capillary gas chromatographic method for the
simultaneous determination of local anaesthetics
in plasma samples 533(1990)229

Primidone

Metabolic studies with phenobarbitone, primidone and their N-alkyl derivatives: quantification of substrates and metabolites using chemical ionization gas chromatography–mass spectrometry 526(1990)59

Simultaneous determination of six antiepileptic drugs by capillary gas chromatography 527(1990)428

Determination of anticonvulsant drugs and methyl xanthine derivatives in serum by liquid chromatography with direct injection: column-switching method using a new internal-surface reversed-phase silica support as a precolumn 529(1990)455

Proanthocyanidin

Micro method for the identification of proanthocyanidin using thiolysis monitored by high-performance liquid chromatography 540(1991)401

Procaine

Comparison of octadecyl-bonded alumina and silica for reversed-phase high-performance liquid chromatography 505(1990)307

Prochlorperazine

Controlling the retention of clopenthixol and other basic drug substances by reversed-phase ion-pair chromatography on bonded-phase materials using two counter-ions of opposite charge 523(1990)217

Procion Red H3B

Immobilization of reactive dyes on several matrices that allow high and very high flow-rates to be used. Application to the purification of a proteinase inhibitor from corn 510(1990)165

Procion Red HE3b

Investigation of affinity partition chromatography using formate dehydrogenase as a model 523(1990)103

Proctolin

Capillary zone electrophoresis–mass spectrometry using a coaxial continuous-flow fast atom bombardment interface 516(1990)167

Procyanidin

Micro method for the identification of proanthocyanidin using thiolysis monitored by high-performance liquid chromatography 540(1991)401

Proenkephalin A

Proenkephalin A and proopiomelanocortin peptides in human cerebrospinal fluid 530(1990)235

Progabide

Simultaneous determination of progabide and its acid metabolite by reversed-phase high-performance liquid chromatography 527(1990)214

Proguanil

Assay method for the simultaneous determination of proguanil, chloroquine and their major metabolites in biological fluids 527(1990)490

Proinsulin

Non-ideal behaviour of silica-based stationary phases in trifluoroacetic acid–acetonitrile-based reversed-phase high-performance liquid chromatographic separations of insulins and proinsulins 536(1991)43

Reversed-phase high-performance liquid chromatographic characterization of acetic acid extracts of the normal and the diabetic human pancreas 537(1991)201

Use of polymeric reversed-phase columns for the characterization of polypeptides extracted from human pancreata. I. Effect of the mobile phase 542(1991)65

Silica *versus* polymer-based stationary phases for reversed-phase high-performance liquid chromatographic analyses of rat insulin biosynthesis. A comparison of resolution and recovery 548(1991)195

Separation and quantitation of serum proinsulin and proinsulin intermediates in humans 548(1991)371

Prolactin

High-performance liquid chromatography of amino acids, peptides and proteins. XCIX. Comparative study of the equilibrium refolding of bovine, porcine and human growth hormone by size-exclusion chromatography 512(1990)57

Purification to homogeneity of bovine prolactin by high-performance ion-exchange chromatography 547(1991)457

Prolidase

High-performance liquid chromatographic procedure for the determination of serum prolidase activity 530(1990)116

Proline

Elimination of peak splitting in the liquid chromatography of the proline-containing drug enalapril maleate 537(1991)249

L-Proline

Enantiomeric resolution of amino acid derivatives by high-performance liquid chromatography on chiral stationary phases derived from L-proline 547(1991)31

Proline iminopeptidase

Determination of proline iminopeptidase activity in bovine dental germs by high-performance liquid chromatography 527(1990)158

Prolyl peptides

High-performance liquid chromatographic method for the determination of prolyl peptides in urine 536(1991)337

Promethazine

Simple procedure involving derivatisation and thin-layer chromatography for the estimation of trace levels of halogenated alkylamines and their hydrolysis products in drug substances and formulations 543(1991)211

Enantiomeric separation of amines using N-benzoxycarbonylglycyl-L-proline as chiral additive and porous graphitic carbon as solid phase 543(1991)287

Proopiomelanocortin

Proenkephalin A and proopiomelanocortin peptides in human cerebrospinal fluid 530(1990)235

Propafenone

Liquid chromatographic analysis of propafenone enantiomers in human plasma 527(1990)79

n-Propanal

Chromatograms of second-order reactions on chromatographic columns 520(1990)109

Propane

Comparison of supercritical carbon dioxide and supercritical propane as mobile phases in supercritical fluid chromatography 505(1990)119

Propanethiol

Generation of standard gaseous mixtures by thermal decomposition of surface compounds. Standard mixtures of thiols 540(1991)449

Propanol

Systematic errors with the use of internal standard calibration in gas chromatographic headspace analysis 518(1990)1

Propargyllone

Elution orders in the separation of enantiomers by high-performance liquid chromatography with some chiral stationary phases 535(1990)213

Propham

Development of an automated high-performance liquid chromatographic method for the on-line pre-concentration and determination of trace concentrations of pesticides in drinking water 503(1990)167

Propionic acid

Positive-ion thermospray liquid chromatography-mass spectrometry: detection of organic acidurias 534(1990)1

Direct determination of acetic acid in strongly acidic hydrolysates of chitin and chitin-containing biological products by capillary gas chromatography 538(1991)431

Propionyl-L-carnitine

Chromatographic and non-chromatographic assay of L-carnitine family components (Review) 527(1990)247

Propionyl-coenzyme A carboxylase

High-performance liquid chromatographic determination of four kinds of biotin-containing carboxylase 529(1990)55

Propofol

Electrochemical determination of 2,6-diisopropylphenol after high-performance liquid chromatography of extracts from serum 526(1990)293

Simple and practical high-performance liquid chromatographic assay of propofol in human blood by phenyl column chromatography with electrochemical detection 528(1990)537

Propranolol

Determination by high-performance liquid chromatography of the binding properties of charged β -cyclodextrin derivatives with drugs 503(1990)453

Optimization of multidimensional high-performance liquid chromatography for the determination of drugs in plasma by direct

injection, micellar cleanup and photodiode array detection 507(1990)267

Separation of the enantiomers of β -receptor blocking agents and other cationic drugs using a CHIRAL-AGP[®] column. Binding properties and characterization of immobilized α_1 -acid glycoprotein 519(1990)285

Chiral stationary phase for the facile resolution of β -adrenoceptor blocking agents 521(1990)122

Sensitive high-performance liquid chromatographic determination of propranolol in human plasma with ultraviolet detection using column switching combined with ion-pair chromatography 527(1990)196

Simultaneous determination of propranolol and 4-hydroxypropranolol enantiomers after chiral derivatization using reversed-phase high-performance liquid chromatography 527(1990)351

Enantiomeric separation of amines using N-benzoxycarbonylglycyl-L-proline as chiral additive and porous graphitic carbon as solid phase 543(1991)287

Hydrophilic shielding of hydrophobic, cation- and anion-exchange phases for separation of small analytes: direct injection of biological fluids onto high-performance liquid chromatographic columns (Review) 544(1991)41

Comparison of a new ovomucoid and a second-generation α_1 -acid glycoprotein-based chiral column for the direct high-performance liquid chromatography resolution of drug enantiomers 545(1991)43

Use of cyclodextrins in capillary zone electrophoresis. Resolution of terbutaline and propranolol enantiomers 545(1991)437

Propylene oxide

Chromatographic investigations of macromolecules in the "critical range" of liquid chromatography. I. Functionality type and composition distribution in polyethylene oxide and polypropylene oxide copolymers 523(1990)91

2-(N-Propyl-N-2-thienylethylamino)-5-hydroxytetralin

Reversed-phase liquid chromatographic method with amperometric detection for the

determination of the dopamine agonist 2-(N-propyl-N-2-thienylethylamino)-5-hydroxytetralin (N-0437) in human plasma and urine 528(1990)464

Propylthiouracil

High-performance liquid chromatographic determination of propylthiouracil in plasma 507(1990)247

Prosomes

Large-scale purification of prosomes from calf's liver 521(1990)221

Prostaglandin 15-hydroxydehydrogenase

Purification of human placental prostaglandin 15-hydroxydehydrogenase 521(1990)231

Prostaglandin E₂

Separation and determination of prostaglandin E₁ metabolites by high-performance liquid chromatography 533(1990)159

Luminarin 4 as a labelling reagent for carboxylic acids in liquid chromatography with peroxyoxalate chemiluminescence detection 542(1991)295

Prostaglandins

Analytical and preparative resolution of enantiomers of prostaglandin precursors and prostaglandins by liquid chromatography on derivatized cellulose chiral stationary phases 511(1990)97

Determination of prostaglandins in human seminal fluid by solid-phase extraction, pyridinium dichromate derivatization and high-performance liquid chromatography 529(1990)21

Simultaneous reversed-phase extraction of lipoxygenase and cyclooxygenase metabolites of arachidonic acid in nasal secretions: methodological aspects 532(1990)217

High-performance liquid chromatographic detection of myocardial prostaglandins and thromboxanes 536(1991)309

Protamines

Fractionation of basic nuclear proteins of human sperm by zinc chelate affinity chromatography 518(1990)123

Chromatographic separation of four Ser/Thr-protein phosphatases from solubilized ciliary membranes of *Paramecium tetraurelia* by heparin-Sepharose 521(1990)179

Proteases

Feather keratin as a ligand in an affinity chromatographic technique for isolation of protease from *Trichophyton verrucosum* 520(1990)223

Efficient high-performance liquid chromatographic system for the purification of a halobacterial serine protease 521(1990)211

Protein A

Double-coated silica supports for high-performance affinity chromatography of proteins 510(1990)71

Immobilization of Protein A at high density on azlactone-functional polymeric beads and their use in affinity chromatography 512(1990)345

Comparative study of reaction kinetics in membrane and agarose bead affinity systems 519(1990)53

Proteinase inhibitor

Immobilization of reactive dyes on several matrices that allow high and very high flow-rates to be used. Application to the purification of a proteinase inhibitor from corn 510(1990)165

Protein-bound compounds

Direct injection of highly protein-bound compounds by column-switching high-performance liquid chromatography 527(1990)127

Protein phosphatase

Chromatographic separation of four Ser/Thr-protein phosphatases from solubilized ciliary membranes of *Paramecium tetraurelia* by heparin-Sepharose 521(1990)179

Proteins

Determination of biopolymer (protein) molecular weights by gradient elution, reversed-phase high-performance liquid chromatography with low-angle laser light scattering detection 502(1990)21

Purification of histone H1 polypeptides by high-performance cation-exchange chromatography 502(1990)47

Reversed-phase high-performance liquid chromatography of proteins and peptides on a pellicular support based on hydrophilic resin 502(1990)416

Preparative affinity chromatography of proteins. Influence of the physical properties of the base matrix 503(1990)93

Large-scale purification of factor VIII by affinity chromatography: optimization of process parameters 503(1990)103

Aluminum ion mediated stabilization of silica-based anion-exchange packings to caustic regenerants 503(1990)385

Variance contributions to band spread in capillary zone electrophoresis 504(1990)1

Study of the dynamic binding capacity of two anion exchangers using bovine serum albumin as a model protein 504(1990)89

High-performance liquid chromatographic separation of biomolecules using calcium phosphate supported on macroporous silica microparticles 504(1990)319

Adsorption behaviour of albumin and conalbumin on TSK-DEAE 5PW anion exchanger 504(1990)335

Separation by cation-exchange high-performance liquid chromatography of three forms of Chinese hamster ovary cell-derived recombinant human interleukin-2 504(1990)351

Two-component protein adsorption to the cation exchanger S Sepharose® FF 505(1990)329

High-performance liquid chromatography of amino acids, peptides and proteins. XCVII. The influence of the gradient elution mode and displacer salt type on the retention properties of closely related protein variants separated by high-performance anion-exchange chromatography 506(1990)17

Aligned fiber columns for size-exclusion chromatography 506(1990)303

Lipid-vesicle-surface chromatography 506(1990)379

Application of low-angle laser light scattering detection in the field of biochemistry. Review of recent progress 506(1990)409

Study of the retention mechanism of proteins in hydrophobic interaction chromatography 507(1990)1

- High-performance liquid chromatography of amino acids, peptides and proteins. CI. Identification and characterisation of coulombic interactive regions on sperm whale myoglobin by high-performance anion-exchange chromatography and computer-graphic analysis 507(1990)33
- Modification of the selectivity of a reversed-phase high-performance liquid chromatographic system by binding sodium dodecyl sulphate to peptides 507(1990)45
- Fully automated amino acid analysis for protein and peptide hydrolysates by precolumn derivatization with 9-fluorenyl methylchloroformate and 1-aminoadamantane 507(1990)67
- One-step 10^4 -fold purification of transformed glucocorticoid receptor. Method for purifying receptors associated with M_r ca. 90 000 heat-shock protein 508(1990)97
- Design and applications of biomimetic anthraquinone dyes. III. Anthraquinone-immobilised C.I. Reactive Blue 2 analogues and their interaction with horse liver alcohol dehydrogenase and other adenine nucleotide-binding proteins 508(1990)109
- Modification of silica with glucose for the separation of proteins by high-performance liquid chromatography 508(1990)289
- Gel permeation chromatography for the determination of the molecular mass distribution of some industrial proteins 509(1990)227
- Application of avidin-biotin technology to affinity-based separations (Review) 510(1990)3
- Salt-promoted adsorption chromatography 510(1990)47
- Affinity-repulsion chromatography 510(1990)49
- Application of receptor-affinity chromatography to bioaffinity purification 510(1990)59
- Double-coated silica supports for high-performance affinity chromatography of proteins 510(1990)71
- Tresyl-activated support for high-performance affinity chromatography 510(1990)101
- New ion exchangers for the chromatography of biopolymers 510(1990)133
- Purification of gonadotropin releasing hormone receptors using the avidin-biotin technique 510(1990)233
- Purification of the upstream element factor of the Adenovirus-2 major late promoter from HeLa and yeast by sequence-specific DNA affinity chromatography 510(1990)243
- Progress in affinophoresis (Review) 510(1990)251
- Effect of polyethylene glycol on the non-specific adsorption of proteins to Eupergit C and agarose 510(1990)271
- Chemistry and preparation of affinity ligands useful in immunoglobulin isolation and serum protein separation 510(1990)281
- Site-directed immobilization of proteins 510(1990)293
- Purification of soluble cytokine receptors from normal human urine by ligand-affinity and immunoaffinity chromatography 510(1990)331
- Glucose-silica, an improved medium for high-pressure gel filtration chromatography 511(1990)69
- Ion chromatographic determination of plasma oxalate in healthy subjects, in patients with chronic renal failure and in cases of hyperoxaluric syndromes 511(1990)223
- Electric properties of photoaffinity-labelled pancreatic A-subtype cholecystokinin receptor 511(1990)333
- Hadamard transform photothermal deflection densitometry of electrophoretically blotted proteins 511(1990)341
- Binding of sodium dodecyl sulphate to an integral membrane protein and to a water-soluble enzyme. Determination by molecular-sieve chromatography with flow scintillation detection 512(1990)3
- Systematic optimization of protein separations on high-performance ion-exchange chromatographic media 512(1990)13
- High-performance liquid chromatography of amino acids, peptides and proteins. XCVIII. The

influence of different displacer salts on the bandwidth properties of proteins separated by gradient elution anion-exchange chromatography 512(1990)41

High-performance liquid chromatography of amino acids, peptides and proteins. XCIX. Comparative study of the equilibrium refolding of bovine, porcine and human growth hormone by size-exclusion chromatography 512(1990)57

Predicting the performance of gel-filtration chromatography of proteins 512(1990)77

Preparative chromatography of proteins. Design calculation procedure for gradient and stepwise elution 512(1990)89

High-performance liquid chromatography of amino acids, peptides and proteins. CIII. Mass transfer resistances in ion-exchange and dye-affinity chromatography of proteins 512(1990)101

Isolation of isoproteins from monoclonal antibodies and recombinant proteins by chromatofocusing 512(1990)157

Immobilized metal ion affinity chromatography for the purification of *Fel d 1*, a cat major allergen, from a house-dust extract 512(1990)177

Characterization of apolipoproteins from chicken plasma 512(1990)203

Rapid high-performance liquid chromatographic protein quantitation of purified recombinant Factor VIII containing interfering substances 512(1990)213

Purification of membrane protein complexes isolated from a cyanobacterial thylakoid membrane by high-performance liquid chromatography 512(1990)219

Simultaneous determination of *Bordetella pertussis* toxin and filamentous haemagglutinin concentrations by hydroxyapatite high-performance liquid chromatography 512(1990)227

High-performance metal chelate interaction chromatography of proteins with silica-bound ethylenediamine-N,N'-diacetic acid 512(1990)237

Peptide mapping of HIV polypeptides expressed in *Escherichia coli*. Quality control of different

batches and identification of tryptic fragments containing residues of aromatic amino acids or cysteine 512(1990)325

Preparative high-performance liquid chromatography on a unique high-speed macroporous resin 512(1990)365

Correlation of protein partitioning in aqueous polymer two-phase systems 513(1990)137

Effect of type and concentration of coupling buffer on coupling yield in the coupling of proteins to a tresyl-activated support for affinity chromatography 513(1990)367

Characterization of an adamantyl-modified silica used as a stationary phase in high-performance liquid chromatography 514(1990)11

Chemical properties of and solute-support interactions with the gel filtration medium Superdex 75 prep grade 514(1990)137

Size-exclusion chromatography dimension for rod-like macromolecules 515(1990)37

Fundamental study of hydroxyapatite high-performance liquid chromatography. II. Experimental analysis on the basis of the general theory of gradient chromatography 515(1990)91

Fundamental study of hydroxyapatite high-performance liquid chromatography. III. Direct experimental confirmation of the existence of two types of adsorbing surface on the hydroxyapatite crystal 515(1990)125

Characteristics of C₄- and C₈-bonded vinyl alcohol copolymer gels for reversed-phase high-performance liquid chromatography 515(1990)175

Separation and determination of aspicillin in human plasma by micellar electrokinetic chromatography with direct sample injection 515(1990)245

Evaluation of ammonium acetate as a volatile buffer for high-performance hydrophobic-interaction chromatography 515(1990)279

Automated high-resolution two-dimensional liquid chromatographic system for the rapid and sensitive separation of complex peptide mixtures 515(1990)313

- Purification of D₂ dopamine receptor by photoaffinity labelling, high-performance liquid chromatography and preparative sodium dodecyl sulphate polyacrylamide gel electrophoresis 515(1990)375
- Analysis of proteins by high-performance liquid chromatography with circular dichroism spectrophotometric detection 515(1990)407
- High-performance liquid chromatography of proteins on a ceramic hydroxyapatite with volatile buffers 515(1990)521
- Apparatus for coupled high-performance liquid chromatography and capillary electrophoresis in the analysis of complex protein mixtures 515(1990)659
- Recent developments in electrophoretic methods (Review) 516(1990)3
- Polyethyleneimine-bonded phases in the separation of proteins by capillary electrophoresis 516(1990)69
- Use of high-performance capillary electrophoresis to monitor charge heterogeneity in recombinant-DNA derived proteins 516(1990)115
- Capillary electrophoresis of proteins under alkaline conditions 516(1990)123
- Capillary zone electrophoresis for monitoring r-DNA protein purification in multi-compartment electrolyzers with immobiline membranes 516(1990)133
- Sensitivity considerations for large molecule detection by capillary electrophoresis-electrospray ionization mass spectrometry 516(1990)157
- Applicability of dynamic change of pH in the capillary zone electrophoresis of proteins 516(1990)219
- Surfactant-mediated hydrophobic interaction chromatography of proteins: gradient elution 518(1990)99
- Water-soluble proteins do not bind octyl glucoside as judged by molecular sieve chromatographic techniques 518(1990)111
- Fractionation of basic nuclear proteins of human sperm by zinc chelate affinity chromatography 518(1990)123
- High-performance liquid chromatographic determination of proteins by post-column fluorescence derivatization with thiamine reagent 518(1990)141
- Flow-through particles for the high-performance liquid chromatographic separation of biomolecules: perfusion chromatography 519(1990)1
- Preparation and rapid resolution of *Xenopus* phosphatases and phosphatases by high-performance liquid chromatography 519(1990)75
- Use of the sodium salt of poly(vinylsulfonic acid) as a low-molecular-weight displacer for protein separations by ion-exchange displacement chromatography 519(1990)87
- Strategies for internal amino acid sequence analysis of proteins separated by polyacrylamide gel electrophoresis 519(1990)199
- Gas chromatography of tryptophan together with other amino acids in hydrochloric acid hydrolysates 520(1990)193
- Procedure for the purification of streptavidin by hydrophobic interaction chromatography 520(1990)325
- Application of high-performance liquid chromatography to the purification of the putative intestinal peptide transporter 521(1990)199
- Isolation of an outer membrane protein complex from *Borrelia burgdorferi* by *n*-butanol extraction and high-performance ion-exchange chromatography 521(1990)325
- Adsorption of proteins on porous and non-porous poly(ethyleneimine) and tentacle-type anion exchangers 522(1990)77
- Effect of feed flow-rate, antigen concentration and antibody density on immunoaffinity purification of coagulation factor IX 522(1990)153
- Hydrophobic interaction chromatography of proteins on Separon HEMA. II. Influence of sorbent modification on efficiency of separation 523(1990)131
- Hydrophobic interaction chromatography of proteins on Separon HEMA. III. Selection of

- suitable gradient conditions for the separation of proteins by hydrophobic interaction chromatography 523(1990)139
- Isolation of human lactoferrin by affinity chromatography using insolubilized bovine β -lactoglobulin 525(1990)442
- Determination of collagen and protein turnover by high-performance liquid chromatography 526(1990)383
- Affinity chromatographic isolation of a major polyamine binding protein from serum and placenta, identified as serum albumin 527(1990)146
- Separation of phosphoproteins by fast protein liquid chromatography 527(1990)152
- Esophageal carcinoma-associated proteins detected by two-dimensional polyacrylamide gel electrophoresis 527(1990)315
- Detection of the exercise-associated changes in serum proteins by two-dimensional electrophoresis under non-denaturing conditions 528(1990)315
- Efficient large-scale purification of non-histone chromosomal proteins HMG1 and HMG2 by using Polybuffer-exchanger PBE94 530(1990)39
- Separation procedures used to reveal and follow drug-protein binding 531(1990)51
- Analysis of cellular fatty acids and proteins by capillary gas chromatography and sodium dodecyl sulphate polyacrylamide gel electrophoresis to differentiate *Mycobacterium avium*, *Mycobacterium intracellulare* and *Mycobacterium scrofulaceum* (MAIS) complex species 532(1990)209
- Separation of serum proteins by high-performance gel-permeation column systems 533(1990)47
- Two-dimensional polyacrylamide gel electrophoretic pattern of duodenal tumour proteins 534(1990)47
- New family of high-resolution ion exchangers for protein and nucleic acid purifications from laboratory to process scales 535(1990)127
- Monosized stationary phases for chromatography 535(1990)147
- Metal ligand-induced alterations in the surface structures of lactoferrin and transferrin probed by interaction with immobilized copper(II) ions 536(1991)1
- Effect of metal ions on the unfolding kinetics of α -lactalbumin on weakly hydrophobic surfaces 536(1991)17
- Purification of proteins on an epoxy-activated support by high-performance affinity chromatography 536(1991)95
- Analysis of protein denaturation by high-performance continuous differential viscometry 536(1991)113
- High-performance liquid chromatography of amino acids, peptides and proteins. CVII. Analysis of group retention contributions for peptides separated with a range of mobile and stationary phases by reversed-phase high-performance liquid chromatography 536(1991)165
- Determination of 3-methylhistidine in hydrolysed proteins by fluorecamine derivatization and high-performance liquid chromatography 536(1991)283
- Method for the characterization of stationary phases for the separation of proteins by high-performance liquid chromatography 537(1991)1
- Chemical, physical and chromatographic properties of Superdex 75 prep grade and Superdex 200 prep grade gel filtration media 537(1991)17
- Alternative mobile phases for the reversed-phase high-performance liquid chromatography of peptides and proteins 537(1991)181
- Reversed-phase high-performance liquid chromatographic characterization of acetic acid extracts of the normal and the diabetic human pancreas 537(1991)201
- Protein-ligand interactions studied on bovine serum albumin with free and polymer-bound Cibacron Blue F3G-A as ligand with reference to affinity partitioning 537(1991)219
- Large-scale isolation and purification of human apolipoproteins A-I and A-II 537(1991)464
- Column-friendly reversed-phase high-performance liquid chromatography of peptides and proteins

- using formic acid with sodium chloride and dynamic column coating with crown ethers 539(1991)37
- Immobilized metal ion affinity partitioning, a method combining metal-protein interaction and partitioning of proteins in aqueous two-phase systems 539(1991)267
- Comparative affinity chromatographic studies using novel grafted polyamide and poly(vinyl alcohol) media 539(1991)307
- Microfiltration membranes as pseudo-affinity adsorbents: modification and comparison with gel beads 539(1991)315
- Recognition of phosphate groups by immobilized aluminium(III) ions 539(1991)327
- Purification of *E. coli* 30S ribosomal proteins by high-performance liquid chromatography under non-denaturing conditions 539(1991)343
- Isolation and characterization of two different molecular forms of basic fibroblast growth factor extracted from human placental tissue 539(1991)393
- Affinity chromatography of fibroblast growth factors on coated silica supports grafted with heparin 539(1991)417
- Selective extraction of native β -lactoglobulin from whey 539(1991)455
- Purification and characterization of recombinant tropomyosins 539(1991)465
- Isolation and purification of cat albumin from cat serum by copper ion affinity chromatography: further analysis of its primary structure 539(1991)475
- Purification of a hybrid plasminogen activator protein 539(1991)485
- Purification of heparin cofactor II from human plasma 539(1991)493
- Purification of cloned trypanosomal calmodulin and preliminary NMR studies 539(1991)501
- Monitoring of protein conformation by high-performance size-exclusion liquid chromatography and scanning diode array second-derivative UV absorption spectroscopy 540(1991)187
- Application of reversed-phase high-performance liquid chromatography to the separation of apolipoproteins A-IV, A-I and E from rat high-density lipoprotein 540(1991)386
- Sample displacement mode chromatography: purification of proteins by use of a high-performance anion-exchange column 541(1991)207
- Comparison of polybutadiene-coated alumina and octadecyl-bonded silica for separations of proteins and peptides by reversed-phase high-performance liquid chromatography 541(1991)303
- Analysis of the soluble proteins in grape must by two-dimensional electrophoresis 541(1991)453
- Equilibria of biomolecules on ion-exchange adsorbents 542(1991)19
- Comparison of site-specific coupling chemistry for antibody immobilization on different solid supports 542(1991)41
- Properties of supports for the partition chromatography of proteins 542(1991)55
- Determination of size limits of membrane separation in vesicle chromatography by fractionation of polydisperse dextran 542(1991)239
- Chromatographic and physical studies of tropomyosin in aqueous-organic media at low pH 543(1991)327
- Chiral copper-chelate complexes alter selectivities in metal affinity protein partitioning 543(1991)345
- Silica-based supports for high-performance liquid chromatography of biopolymers using non-denaturing conditions (Review) 544(1991)125
- Fluoropolymers and fluorocarbon bonded phases as column packings for liquid chromatography (Review) 544(1991)187
- Evaluation of vinylpyridine and vinylpyridinium polymers as column packings for high-performance liquid chromatography (Review) 544(1991)219
- Macroporous synthetic hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1991)249

- Non-porous hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1989)257
- Perfusion chromatography packing materials for proteins and peptides 544(1991)267
- Recycling and screen-segmented column isotachopheresis, two free-fluid approaches for fractionation of proteins 545(1991)315
- Two-dimensional electrophoresis: agarose gel isotachopheresis followed by sodium dodecyl sulphate-polyacrylamide electrophoresis 545(1991)343
- Use of discrete spacers for the separation of proteins by gel isotachopheresis 545(1991)391
- Azide determination in protein samples by ion chromatography 546(1991)325
- Subfractions of membranes from calf brain synaptosomes obtained and studied by liquid-liquid partitioning 547(1991)79
- Characterization of recombinant eel growth hormone 547(1991)131
- Very high speed separation of proteins with a 20- μm reversed-phase sorbent 547(1991)452
- Purification to homogeneity of bovine prolactin by high-performance ion-exchange chromatography 547(1991)457
- Improved capillary zone electrophoretic separation of basic proteins, using a fluorosurfactant buffer additive 547(1991)544
- Capillary electrophoretic separation in both H_2O - and $^2\text{H}_2\text{O}$ -based electrolytes can provide more information on tryptic digests 547(1991)551
- Investigations of liquid-liquid partition chromatography of proteins 548(1991)3
- Application of the split-peak effect to study the adsorption kinetics of human serum albumin on a reversed-phase support 548(1991)81
- Solution properties of polyelectrolytes. VII. Non-ideal mechanisms in size-exclusion chromatography of synthetic polyions, peptides and proteins 548(1991)93
- High-performance liquid chromatography of amino acids, peptides and proteins. CXI. Retention behaviour of proteins with macroporous tentacle-type anion exchangers 548(1991)117
- High-performance liquid chromatography of amino acids, peptides and proteins. CXII. Analysis of operating parameters affecting the breakthrough curves in fixed-bed chromatography of proteins using several mathematical models 548(1991)127
- High-performance liquid chromatography of amino acids, peptides and proteins. CXIII. Predicting the performance of non-porous particles in affinity chromatography of proteins 548(1991)147
- Characterization of synthetic macroporous ion-exchange resins in low-pressure cartridges and columns. Evaluation of the performance of Macro-Prep 50 S resin in the purification of anti-Klenow antibodies from goat serum 548(1991)165
- Comparison of silica-based cyanopropyl and octyl reversed-phase packings for the separation of peptides and proteins 548(1991)179
- High-performance liquid chromatography and ultrafiltration of whey proteins with inorganic porous materials coated with polyvinylimidazole derivatives 548(1991)215
- Effect of antigen size on optimal ligand density of immobilized antibodies for a high-performance liquid chromatographic support 548(1991)243
- Glycosylation of extracellular superoxide dismutase studied by high-performance liquid chromatography and mass spectrometry 548(1991)293
- Phenotyping of bovine milk proteins by reversed-phase high-performance liquid chromatography 548(1991)361
- Structure-stability relationship of Immobiline chemicals for isoelectric focusing as monitored by capillary zone electrophoresis 548(1991)381
- Effects of temperature, carrier composition and sample load in asymmetrical flow field-flow fractionation 548(1991)393
- Fluoride-modified zirconium oxide as a biocompatible stationary phase for high-performance liquid chromatography 549(1991)59

Metal affinity displacement chromatography of proteins 549(1991)89

Ovine luteinizing hormone. V. Significance of flow-through peaks observed during chromatofocusing as revealed by various methods of sample preparation and application 549(1991)141

Capillary zone electrophoresis with a linear, non-cross-linked polyacrylamide gel: separation of proteins according to molecular mass 549(1991)446

High-performance liquid chromatography of amino acids, peptides and proteins. CIX. Investigations on the relation between the ligand density of Cibacron Blue immobilized porous and non-porous sorbents and protein-binding capacities and association constants 550(1990)383

Chromatographic separation and examination of carbohydrate and phenolic components of the non-tannin fraction of black wattle (*Acacia meurnsii*) bark extract 550(1991)519

Protein separation with aqueous-aqueous polymer systems by two types of counter-current chromatographs 550(1991)695

Effect of sample viscosity in high-performance size-exclusion chromatography and its control 550(1991)705

Cascade-mode multiaffinity chromatography. Fractionation of human serum proteins 550(1991)751

High-performance capillary electrophoresis of proteins. Sodium dodecyl sulphate-polyacrylamide gel-filled capillary column for the determination of recombinant biotechnology-derived proteins 550(1991)823

Proteins, bifunctional

Purification of a amylase-pullulanase bifunctional enzyme by high-performance size-exclusion and hydrophobic-interaction chromatography 512(1990)131

Proteins, globular

Binding capacities of hydroxyapatite for globular proteins 515(1990)193

Proteins, hydrophobic

High-performance capillary electrophoresis of hydrophobic membrane proteins 516(1990)89

Proteins, ribosomal

Reversed-phase chromatography of *Escherichia coli* ribosomal proteins. Correlation of retention time with chain length and hydrophobicity 522(1990)163

Purification of *E. coli* 30S ribosomal proteins by high-performance liquid chromatography under non-denaturing conditions 539(1991)343

Proteoglycans

Isolation and characterization of proteoglycans from different tissues 521(1990)311

Protopine

Determination of isoquinoline alkaloids in *Chelidonium majus* L. by ion-pair high-performance liquid chromatography 542(1991)193

Protriptyline

Studies on system peaks in ion-pair adsorption chromatography. III. Regulation of system peak gradient retention for obtaining analyte peak compression 506(1990)61

Separation of seven tricyclic antidepressants using capillary electrophoresis 549(1991)375

Proxopur

Development of an automated high-performance liquid chromatographic method for the on-line pre-concentration and determination of trace concentrations of pesticides in drinking water 503(1990)167

Pseudocumene

Retention times and heats of adsorption of aromatic compounds on carbon adsorbents 506(1990)335

Pseudouridine

Determination of pseudouridine in human urine and serum by high-performance liquid chromatography with post-column fluorescence derivatization 515(1990)495

Isolation and identification of urinary nucleosides. Applications of high-performance liquid chromatographic methods to the synthesis of 5'-deoxyxanthosine and the simultaneous determination of 5,6-dihydrouridine and pseudouridine 515(1990)537

Isolation of an additional inhibitor of glucose utilization in renal insufficiency: pseudouridine 528(1990)178

Psilocin

Determination of psilocin in rat urine by high-performance liquid chromatography with electrochemical detection 534(1990)287

Ptaquiloside

Determination of ptaquiloside in bracken fern (*Pteridium esculentum*) 538(1991)462

Pterocarpan

Enantiomeric separation of racemic pterocarpan by high-performance liquid chromatography on (+)-poly(triphenylmethyl methacrylate)-coated silica gel 508(1990)212

Pteroylglutamates

Optimized high-performance liquid chromatographic procedure for the separation and determination of the main folacins and some derivatives. II. Extraction method and application to rat liver 545(1991)91

Pullulan

Size-exclusion chromatography dimension for rod-like macromolecules 515(1990)37

Purine nucleosides

Determination of purine nucleosides and their bases by high-performance liquid chromatography using co-immobilized enzyme reactors 528(1990)91

Purines

see also Nucleobases

Chromatographic characteristics of nucleic acid components on vinyl alcohol copolymer gel columns 506(1990)145

Applications of high-performance liquid chromatography in bacteriology. I. Determination of metabolites (Review) 515(1990)415

Ion-pair high-performance liquid chromatography of purine compounds in the small intestinal mucosa of children with coeliac disease 520(1990)419

Photochemical reaction coupled to solid-state peroxyoxalate chemiluminescence for the high-performance liquid chromatographic detection of compounds having weak chromophores 523(1990)163

Determination of purine compounds by ion-pair microbore high-performance liquid chromatography: application to ischemic rat kidney mitochondria 527(1990)498

Determination of neurochemicals in biological fluids by using an automated high-performance liquid chromatographic system with a coulometric array detector 536(1991)229

Putrescine

Simultaneous determination of biogenic amines by reversed-phase high-performance liquid chromatography 508(1990)225

High-performance liquid chromatographic method for the determination of dansyl-polyamines 511(1990)177

Investigation of interfering products in the high-performance liquid chromatographic determination of polyamines as benzoyl derivatives 518(1990)264

Liquid chromatography-mass spectrometry studies of 9-fluorenylmethyl chloroformate derivatives of polyamines 540(1991)199

Pyrans

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

Pyrazinamide

Determination of 2-methylpyrazine and pyrazinamide in reaction mixtures by gas and high-performance liquid chromatography 513(1990)83

Rapid liquid chromatographic method for the estimation of isoniazid and pyrazinamide in plasma and urine 532(1990)418

Pyrazines

Hydrophobicity parameters determined by reversed-phase liquid chromatography. I. Relationship between capacity factors and octanol-water partition coefficients for monosubstituted pyrazines and the related pyridines 514(1990)123

Pyrene

Three-dimensional network plots using colours for a fourth variable with binary mixtures of pentane and 1,4-dioxane under sub- and supercritical conditions 505(1990)109

Solid-surface room-temperature phosphorescence detection for high-performance liquid chromatography 508(1990)37

Pyrethroids

Enantiomer separation of pyrethroid insecticides by high-performance liquid chromatography with chiral stationary phases 515(1990)441

Rapid method for esterification of trace levels of carboxylic acids for analysis by gas chromatography-electron-capture detection 516(1990)427

Chiral high-performance liquid chromatography of synthetic pyrethroid insecticides 539(1991)207

Use of low-purity solvents and reagents for analysis of residues of synthetic pyrethroid pesticides by gas chromatography with electron-capture detection 540(1991)464

Pyridines

Characterization of an adamantyl-modified silica used as a stationary phase in high-performance liquid chromatography 514(1990)11

2-Pyridinethiol 1-oxide

High-performance liquid chromatographic determination of zinc pyrithione in antidandruff preparations based on copper chelate formation 502(1990)379

Pyridinium dichromate

Determination of prostaglandins in human seminal fluid by solid-phase extraction, pyridinium dichromate derivatization and high-performance liquid chromatography 529(1990)21

Pyridinium oximes

High-performance liquid chromatographic analysis of imidazolium and pyridinium oximes in plasma and urine 527(1990)371

Pyridinoline

Rapid assay for hard tissue collagen cross-links using isocratic ion-pair reversed-phase liquid chromatography 525(1990)43

Pyridopyrimidines

Correlation between structure and gas chromatographic behaviour of nitrogen-containing heterocyclic compounds. I. Methyl substitution of pyridopyrimidine derivatives 537(1991)365

Pyridostigmine

Determination of pyridostigmine plasma concentrations by high-performance liquid chromatography 534(1990)291

Pyridoxal-5'-phosphate

High-performance liquid chromatography of thiazolidinic compounds 514(1990)80

Pyridoxal 5'-phosphate, carbamoyl derivative

High-performance liquid chromatography of two derivatives of vitamin B₆, the carbamoyl derivatives of pyridoxal 5'-phosphate and pyridoxamine 5'-phosphate 547(1991)472

Pyridoxamine 5'-phosphate, carbamoyl derivative

High-performance liquid chromatography of two derivatives of vitamin B₆, the carbamoyl derivatives of pyridoxal 5'-phosphate and pyridoxamine 5'-phosphate 547(1991)472

Pyridoxine

Determination of water-soluble vitamins in blood and plasma by coupled-column liquid chromatography 506(1990)471

Pyridoxine kinase

Simple isocratic high-performance liquid chromatographic method for measuring pyridoxine kinase activity in crude biological extracts 526(1990)25

3-Pyridylcarbinol

Nicotine metabolites in the urine of smokers 525(1990)193

Pyrilamine

High-performance liquid chromatography of the antihistamine pyrilamine and its N-oxide using electrochemical detection 534(1990)151

Pyrilamine-N-oxide

High-performance liquid chromatography of the antihistamine pyrilamine and its N-oxide using electrochemical detection 534(1990)151

Pyrimidine carboxamide

Determination of the monoamine oxidase B inhibitor Ro 19-6327 in plasma by high-performance liquid chromatography using precolumn derivatization with fluorescamine and fluorescence detection 507(1990)187

Pyrimidines

Chromatographic characteristics of nucleic acid components on vinyl alcohol copolymer gel columns 506(1990)145

Separation and interconversion of 3-amino-2-cyanoacrylates by high-performance liquid chromatography 507(1990)409

Applications of high-performance liquid chromatography in bacteriology. I. Determination of metabolites (Review) 515(1990)415

Relationship between retention parameters in reversed-phase high-performance liquid chromatography and antitumour activity of some pyrimidine bases and nucleosides 547(1991)161

Pyronaridine

Analysis of blood and urine samples from *Macaca mulata* for pyronaridine by high-performance liquid chromatography with electrochemical detection 527(1990)115

Pyropheophytins

High-performance liquid chromatography-continuous-flow fast atom bombardment mass spectrometry of chlorophyll derivatives 542(1991)373

Pyrophosphate

Determination of trimetaphosphate in pyrophosphate by capillary isotachopheresis 516(1990)473

Ion chromatography for the analysis of household consumer products 546(1991)351

Pyrrolidides

Preparation of pyrrolidides from fatty acids via trimethylsilyl esters for gas chromatographic-mass spectrometric analysis 513(1990)405

Pyrrolidine

Preparation of pyrrolidides from fatty acids via trimethylsilyl esters for gas chromatographic-mass spectrometric analysis 513(1990)405

2-Pyrrolidinone

Diurnal changes in plasma levels of 2-pyrrolidinone determined by isotope dilution mass spectrometry 550(1991)239

Pyrrolnitrin

High-performance liquid chromatographic analysis of phenylpyrroles produced by *Pseudomonas cepacia* 508(1990)247

Pyruvate

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Pyruvate carboxylase

High-performance liquid chromatographic determination of four kinds of biotin-containing carboxylase 529(1990)55

Pyruvate dehydrogenase

Application of high-performance liquid chromatography to the purification, disintegration and molecular mass determination of pyruvate dehydrogenase multi-enzyme complexes from different sources 521(1990)169

Q

Quassinoids

Separation of quassinoids from *Ailanthus altissima* by high-speed counter-current chromatography 538(1991)227

Quaternary ammonium compounds

Determination of fungistatic quaternary ammonium compounds in beverages and water samples by high-performance liquid chromatography 507(1990)421

Quaternary ammonium steroids

Analysis of steroids. XLI. Ion-pair high-performance liquid chromatographic separation of quaternary ammonium steroids on silica 550(1991)639

Quercetin

High-performance liquid chromatographic determination of five widespread flavonoid aglycones 508(1990)236

Application of micellar electrokinetic capillary chromatography to the determination of flavonoid drugs 549(1991)367

Quinalphos

High-performance liquid chromatographic separation and determination of quinalphos in technical and commercial formulations 502(1990)208

Small-scale method for the determination of organophosphorus insecticides in tea using sulphuric acid as clean-up reagent 516(1990)446

Quinazoline alkaloids

Determination of vasicine and related alkaloids by gas chromatography-mass spectrometry 505(1990)424

Quinine

High-performance liquid chromatographic determination of quinine in plasma, whole blood and samples dried on filter paper 528(1990)221

Quinolones

High-performance liquid chromatographic determination of several quinolone antibacterials in medicated fish feed 514(1990)348

Quinoxaline antibiotics

Liquid chromatographic investigation of quinoxaline antibiotics and their analogues by means of ultraviolet diode-array detection 507(1990)277

8-Quinoxaline complexes

Simultaneous determination of molybdenum, vanadium, gallium, copper, iron and indium as 8-quinolinolate complexes by high-performance liquid chromatography 539(1991)225

R

Radiamuls 142

Characterization of polymer additives by supercritical fluid chromatography and by liquid chromatography 505(1990)283

Raffinose

Column liquid chromatographic determination of saccharides with a single calibration graph using post-column enzyme reactors and coulometric detection 549(1991)127

Ramipril

Multiple peak formation in reversed-phase liquid chromatography of ramipril and ramiprilate 506(1990)75

Ramiprilate

Multiple peak formation in reversed-phase liquid chromatography of ramipril and ramiprilate 506(1990)75

Ranitidine

Automated liquid chromatographic determination of ranitidine in microliter samples of rat plasma 535(1990)287

Rapeseed oil

Computer simulation as an aid in method development for gas chromatography. II. Changes in band spacing as a function of temperature 541(1991)21

Rare earths

Separation of rare earth elements by high-speed counter-current chromatography 538(1991)133

Rare earth tetraphenylporphines

High-performance thin-layer chromatography of rare earth tetraphenylporphine complexes 504(1990)179

Factors influencing the retention of rare earth-tetraphenylporphine complexes in reversed-phase high-performance liquid chromatography 542(1991)351

Reduced haloperidol

Simultaneous determination of haloperidol and reduced haloperidol by gas chromatography using a mcgabore column with electron-capture detection: application to microsomal oxidation of reduced haloperidol 529(1990)182

Reichardt's dye

Solvent selection guide for counter-current chromatography 538(1991)109

Relaxin

Characterization of chemically synthesized human relaxin by high-performance liquid chromatography 508(1990)81

Remoxipride

Separation of anionic and cationic compounds of biomedical interest by high-performance liquid chromatography on porous graphitic carbon 515(1990)183

Determination of remoxipride in plasma and urine by reversed-phase column liquid chromatography 526(1990)139

Resin acids

Determination of resin and fatty acids in pulp and paper mill effluents and white waters by gas-liquid chromatography 509(1990)65

Qualitative analysis of a commercially available phenol-formaldehyde resin, by static and

dynamic headspace analysis using a mass-selective detector 509(1990)101

Determination of resin and fatty acids in sediments near pulp mill locations 547(1991)315

Resoles

Applications of gel filtration chromatography for resol phenolic resins using aqueous sodium hydroxide as solvent 513(1990)271

Resorcinol

Separation and quantitation of phenolic compounds in mainstream cigarette smoke by capillary gas chromatography with mass spectrometry in the selected-ion mode 505(1990)365

Restriction endonucleases

Affinity partitioning of restriction endonucleases. Application to the purification of EcoR I and EcoR V 538(1991)311

Retinoids

Capillary gas chromatography of retinoids (vitamin A compounds) and apo-retinoids: determination of Kováts retention indices 527(1990)406

Chromatography of retinoids 531(1990)481

Retinol

Endogenous levels of β -carotene in human buccal mucosa cells by reversed-phase high-performance liquid chromatography 526(1990)47

Retinol palmitate

Endogenous levels of β -carotene in human buccal mucosa cells by reversed-phase high-performance liquid chromatography 526(1990)47

Rhaponticin

Recent applications of counter-current chromatography to the isolation of bioactive natural products 538(1991)187

Rhodotorulic acid

Analysis of ^{55}Fe -labeled hydroxamate siderophores by high-performance liquid chromatography 537(1991)259

Riboflavin

Detection and quantification of capillary electrophoresis zones by fluorescence microscopy 502(1990)247

Purity control of riboflavin-5'-phosphate (vitamin B₂ phosphate) by capillary zone electrophoresis 508(1990)203

Determination of flavins in dairy products by high-performance liquid chromatography using sorboflavin as internal standard 511(1990)359

Riboflavin-5-phosphate

Determination of flavins in dairy products by high-performance liquid chromatography using sorboflavin as internal standard 511(1990)359

Riboflavin-5'-phosphate

Purity control of riboflavin-5'-phosphate (vitamin B₂ phosphate) by capillary zone electrophoresis 508(1990)203

Ribonuclease

Application of low-angle laser light scattering detection in the field of biochemistry. Review of recent progress 506(1990)409

Evaluation of ammonium acetate as a volatile buffer for high-performance hydrophobic-interaction chromatography 515(1990)279

Ribonuclease A

Binding of lysozyme on the surface of entrapped phosphatidylserine-phosphatidylcholine vesicles and an example of high-performance lipid vesicle surface chromatography 512(1990)377

Binding capacities of hydroxyapatite for globular proteins 515(1990)193

Ribonuclease B

Sensitive blotting assay for the detection of glycopeptides in peptide maps 510(1990)225

Ribonucleoproteins

Large-scale purification of prosomes from calf's liver 521(1990)221

Ribonucleosides

Titanium and zirconia: possible new ceramic microparticulates for high-performance liquid chromatography 515(1990)149

Ribosomes

Separation of ribosomal subunits on Trisacryl GF 2000 545(1991)196

Rifampicin

High-performance liquid chromatographic assay of rifampicin in human serum 525(1990)495

Rimantadine

Effect of noise on peak heights calculated using an exponentially modified gaussian peak shape model 539(1991)133

Ritalinic acid

Enantioselective gas chromatographic assay with electron-capture detection for *dl*-ritalinic acid in plasma 530(1990)327

RM 06

High-performance liquid chromatographic determination in human plasma of a new immunomodulatory agent with a peptidyl-hypoxanthine structure (RM 06) 525(1990)471

RNA

Enrichment of biologically active U1 small nuclear RNAs by ion-exchange high-performance liquid chromatography 547(1991)462

rRNA

Separation of high-molecular mass RNAs by high-performance liquid chromatography on hydroxyapatite 515(1990)611

tRNA

High-performance liquid chromatography of transfer ribonucleic acids on spherical hydroxyapatite beads 506(1990)319

High-performance liquid chromatography of transfer ribonucleic acids on spherical hydroxyapatite beads. II. Effects of pH and sodium chloride on chromatography 515(1990)563

Separation of high-molecular mass RNAs by high-performance liquid chromatography on hydroxyapatite 515(1990)611

RNA, high molecular weight

Separation of high-molecular mass RNAs by high-performance liquid chromatography on hydroxyapatite 515(1990)611

Ropivacaine

Capillary gas chromatographic method for the simultaneous determination of local anaesthetics in plasma samples 533(1990)229

Ruelene

(*R*)- and (*S*)-Naphthylethylcarbamate-substituted β -cyclodextrin bonded stationary phases for the reversed-phase liquid chromatographic separation of enantiomers 539(1991)83

Ruthenium(II) bipyridyl salts

Separation and indirect detection of small-chain peptides using chromophoric mobile phase additives 509(1990)357

Ruthenium(II) 1,10-phenantroline salts

Separation and indirect detection of small-chain peptides using chromophoric mobile phase additives 509(1990)357

Rutin

Recent applications of counter-current chromatography to the isolation of bioactive natural products 538(1991)187

 β -D-Rutinosides

Chromatographic separation and partial identification of glycosidically bound volatile components of fruit 522(1990)255

S**Saccharides**

Preparative separation of sphingolipids and of individual molecular species by high-performance liquid chromatography and their identification by gas chromatography-mass spectrometry 509(1990)333

Isolation of the insect metabolite trehalose by high-performance liquid chromatography 515(1990)573

Studies on texture and properties of porous glass and silica gel used as supports for chemically bonded amino phases for high-performance liquid chromatography 520(1990)237

Determination of saccharides in biological materials by high-performance anion-exchange chromatography with pulsed amperometric detection 546(1991)297

High-performance liquid chromatography of reaction mixtures from the oxidation and degradation of lactose 549(1991)113

Column liquid chromatographic determination of saccharides with a single calibration graph using post-column enzyme reactors and coulometric detection 549(1991)127

Saikosaponins

Simultaneous determination of ginsenosides and saikosaponins by high-performance liquid chromatography 507(1990)327

Salbutamol

Separation and simultaneous determination of bampine and salbutamol in dosage forms by high-performance liquid chromatography 502(1990)189

Salicylic acid

Characterization of an internal-surface reversed-phase silica support for liquid chromatography and its application to assays of drugs in serum 515(1990)59

Hydrophilic shielding of hydrophobic, cation- and anion-exchange phases for separation of small analytes: direct injection of biological fluids onto high-performance liquid chromatographic columns (Review) 544(1991)41

Ion chromatography in the manufacture of multilayer circuit boards 546(1991)369

Salidroside

Chemical characteristics of herbivore defenses in *Betula pendula* winter-dormant young stems 547(1991)367

Salinomycin

Separation and detection of monensin, lasalocid and salinomycin by thin-layer chromatography/bioautography 508(1990)386

Sandostab P-EPQ

Pyrolytic analysis of complex stabilizers in polypropylene 505(1990)375

Sanguinarine

Solid-phase extraction and fluorimetric detection of benzophenanthridine alkaloids from *Sanguinaria canadensis* cell cultures 519(1990)99

Determination of isoquinoline alkaloids in *Chelidonium majus* L. by ion-pair high-performance liquid chromatography 542(1991)193

Santowhite

Étude par chromatographie liquide haute performance des antioxydants phénoliques

présents dans les matériaux plastiques. Comparaison de trois méthodes de détection: spectrophotométrique dans l'ultra-violet, électrochimique, et évaporative à diffusion de la lumière 522(1990)131

Saponins

Utilizing column selectivity in developing a high-performance liquid chromatographic method for ginsenoside assay 504(1990)139

High-performance liquid chromatography of alfalfa root saponins 519(1990)109

Preparative high-performance liquid chromatography on chemically modified porous glass. Isolation of acidic saponins from ginseng 537(1991)469

Sarafloxacin

High-performance liquid chromatographic determination of several quinolone antibacterials in medicated fish feed 514(1990)348

Sarin

Capillary column gas chromatography-mass spectrometry and gas chromatography-tandem mass spectrometry detection of chemical warfare agents in a complex airborne matrix 504(1990)259

Thermal desorption-gas chromatography of some organophosphates and S-mustard after trapping on Tenax 514(1990)273

Detection of sarin and soman in a complex airborne matrix by capillary column ammonia chemical ionization gas chromatography-mass spectrometry and gas chromatography-tandem mass spectrometry 541(1991)121

Saterinone

Direct enantiomeric separation of saterinone by high-performance liquid chromatography 525(1990)161

Determination of saterinone enantiomers in plasma samples with an internal standard using a Chiralcel OD column. Fractionation and reversed-phase chromatography 535(1990)263

Saxitoxin

Analysis of paralytic shellfish poisons by capillary electrophoresis 542(1991)483

Schizophyllan

High-performance gel permeation chromatography of water-soluble β -1,3-glucans 509(1990)213

Size-exclusion chromatography dimension for rod-like macromolecules 515(1990)37

Scopolamine

Electron-impact ionization detection of scopolamine by gas chromatography-mass spectrometry in rat plasma and brain 528(1990)325

Combination of ion-pair and column switching in high-performance liquid chromatography of tropane alkaloids 547(1991)175

Analysis of some tropane alkaloids in plants by mixed-column high-performance liquid chromatography 547(1991)468

Scopoletin

Laser-light-scattering detection for high-speed counter-current chromatography 538(1991)87

SD-3211

Determination of a new calcium antagonist, sesamodil fumarate (SD-3211), and its metabolite in plasma by liquid chromatography with electrochemical detection 527(1990)381

Sedative hypnotics

Identification and differentiation of barbiturates, other sedative-hypnotics and their metabolites in urine integrated in a general screening procedure using computerized gas chromatography-mass spectrometry 530(1990)307

Selegiline

Determination of the amine metabolites of selegiline in biological fluids by capillary gas chromatography 527(1990)163

Selenate

Simultaneous determination of arsenite, arsenate, selenite and selenate in waters using suppressed ion chromatography with ultraviolet absorbance detection 537(1991)269

Selenite

Simultaneous determination of arsenite, arsenate, selenite and selenate in waters using suppressed ion chromatography with ultraviolet absorbance detection 537(1991)269

Selenium

Determination of selenium in organic compounds on a silica gel sintered thin-layer chromatographic plate with 2,3-diaminonaphthalene after direct digestion 537(1991)397

Selenium dioxide

Cyclic arylenazachalcogenenes. IV. Gas chromatographic properties of polyfluorinated 2,1,3-benzoselenadiazoles 549(1991)429

Selenoamino acids

Determination of selenium in organic compounds on a silica gel sintered thin-layer chromatographic plate with 2,3-diaminonaphthalene after direct digestion 537(1991)397

Selenocyanate

Use of cyclodextrins in the isotachophoretic determination of various inorganic anions 518(1990)189

Semi volatile organic compounds

Performance of an extraction disk in synthetic organic chemical analysis using gas chromatography-mass spectrometry 538(1991)233

Septamycin

Indirect thin-layer chromatography-fast atom bombardment and chemical ionization mass spectrometry determination of carbohydrates utilizing simple and rapid microtransfer techniques 514(1990)377

Serine

High-performance liquid chromatographic determination of selected amino acids in rat brain by precolumn derivatization with phenylisothiocyanate 503(1990)177

Serine proteases

Specific adsorption of serine proteases on coated silica beads substituted with amidine derivatives 510(1990)123

One-step purification of trypsin and α -chymotrypsin by affinity chromatography on Eupergit-aprotinin, a novel carrier for purification of serine proteases 510(1990)239

Efficient high-performance liquid chromatographic system for the purification of a halobacterial serine protease 521(1990)211

Serotonin

Simultaneous high-performance liquid chromatographic determination of norepinephrine, serotonin, acetylcholine and their metabolites in the cerebrospinal fluid of anaesthetized normotensive rats 526(1990)1

Determination of tryptophan and its metabolites in human plasma and serum by high-performance liquid chromatography with automated sample clean-up system 526(1990)367

Determination of six indolic compounds, including melatonin, in rat pineal using high-performance liquid chromatography with serial fluorimetric-electrochemical detection 528(1990)111

Two-parameter mobile phase optimization for the simultaneous high-performance liquid chromatographic determination of dopamine, serotonin and related compounds in microdissected rat brain nuclei 547(1991)113

Fingerprinting of molecular components in individual human cerebrospinal fluid samples with a new micropurification system 548(1991)311

Serotonin-2 receptor

Semi-preparative purification of an endogenous ligand for brain serotonin-2 receptors by coil planet centrifuge counter-current chromatography 538(1991)177

Sertraline

Separation and determination of sertraline and its metabolite, desmethylsertraline, in mouse cerebral cortex by reversed-phase high-performance liquid chromatography 527(1990)467

Sesamodil fumarate

Determination of a new calcium antagonist, sesamodil fumarate (SD-3211), and its metabolite in plasma by liquid chromatography with electrochemical detection 527(1990)381

Sesquiterpene lactones

Evaluation of high-performance liquid and capillary gas chromatography for analysis of sesquiterpene lactones of the Melampodiinae 504(1990)151

Dünnschichtchromatographie von Guajanoliden des Unterstammes Centaureinae 505(1990)417

Sesquiterpenes

Gas chromatographic retention indices of monoterpenes and sesquiterpenes on methyl silicone and Carbowax 20M phases (Review) 503(1990)1

Essential oil from *Thymus borgiae*, a new Iberian species of the *Hyphodromi* section 518(1990)230

Sialic acids

Determination of N-acetyl- and N-glycolylneuraminic acids in glycoconjugates by reversed-phase high-performance liquid chromatography with ultraviolet detection 503(1990)421

Oligosaccharide mapping of therapeutic glycoproteins by high-pH anion-exchange high-performance liquid chromatography 512(1990)149

Sialooligosaccharides

Analysis of N- and O-glycosidically bound sialooligosaccharides in glycoproteins by high-performance liquid chromatography with pulsed amperometric detection 523(1990)189

Siderophores

Analysis of ⁵⁵Fe-labeled hydroxamate siderophores by high-performance liquid chromatography 537(1991)259

Silarylene

Behaviours of siloxane polymers containing phenyl or silarylene as stationary phases for high-temperature gas chromatography 514(1990)259

Silica

Recent advances in the simultaneous determination of anions and silica in high-purity water 546(1991)209

Silicate

Ion chromatography for the analysis of household consumer products 546(1991)351

Siloxane acrylate

Fabrication of columns for open-tubular liquid chromatography using photopolymerization of acrylates 516(1990)301

Silsesquioxanes

Separation of the oligomeric silsesquioxanes (HSiO_{3/2})₈₋₁₈ by size-exclusion chromatography 507(1990)481

Silver

Use of crown ethers in the isotachophoretic determination of metal ions 523(1990)281

Silyl acetals

Chiral organosilicon compounds. II. Comparison of gas-liquid chromatographic and NMR analyses of enantiomeric alcohols 503(1990)437

Simazine

Determination of chlorotriazines and their photolysis products by liquid chromatography with photodiode-array and thermospray mass spectrometric detection 502(1990)275

Sinensetin

High-performance liquid chromatography with diode-array ultraviolet detection of methoxylated flavones in *Orthosiphon* leaves 547(1991)439

Sirodesmins

Rapid high-performance liquid chromatographic analysis of phytotoxins from *Phoma lingam* 519(1990)383

SK&F 104146

High-performance liquid chromatographic determination of an arginine-containing octapeptide antagonist of vasopressin in human plasma by means of a selective post-column reaction with fluorescence detection 507(1990)79

SK&F 105494

High-performance liquid chromatographic determination of an arginine-containing octapeptide antagonist of vasopressin in human plasma by means of a selective post-column reaction with fluorescence detection 507(1990)79

S-mustard

Thermal desorption-gas chromatography of some organophosphates and S-mustard after trapping on Tenax 514(1990)273

Sobrerol

Direct liquid chromatographic separation of enantiomeric and diastereomeric terpenic alcohols as β -cyclodextrin inclusion complexes 503(1990)266

Sodium

Anomalous behaviour of sodium in isotachopheresis 545(1991)471

Optimization of the procedure for the determination of alkali and alkaline-earth elements in sea water by suppressed ion chromatography 546(1991)259

Separation of cations in buffered 1-methyl-3-ethylimidazolium chloride-aluminum chloride ionic liquids by ion chromatography 547(1991)484

Sodium alkyl sulphates

Micellar electrokinetic chromatography employing sodium alkyl sulfates and Brij 35[®] 517(1990)549

Sodium aluminate

High-performance liquid chromatographic determination of humic acid in sodium aluminate solution 502(1990)443

Sodium azide

Azide determination in protein samples by ion chromatography 546(1991)325

Sodium chloride

Column-friendly reversed-phase high-performance liquid chromatography of peptides and proteins using formic acid with sodium chloride and dynamic column coating with crown ethers 539(1991)37

Sodium cholate

Separation and determination of lipophilic corticosteroids and benzothiazepin analogues by micellar electrokinetic chromatography using bile salts 513(1990)279

Sodium 5-difluoromethoxy-2-[(3,4-dimethoxy-2-pyridyl)methylsulphonyl]-1H-benzimidazole

High-performance liquid chromatographic determination of the H^+/K^+ ATPase inhibitor (BY 1023/SK&F 96 022) and its sulphone metabolite in serum or plasma by direct injection and fully automated pre-column sample clean-up 529(1990)389

Sodium dodecyl sulphate

High-performance liquid chromatography of levomepromazine (methotrimeprazine) and its main metabolites 503(1990)205

Transient changes of mobile phase in the high-performance liquid chromatographic separation of priority pollutant phenols 507(1990)399

Binding of sodium dodecyl sulphate to an integral membrane protein and to a water-soluble enzyme. Determination by molecular-sieve chromatography with flow scintillation detection 512(1990)3

Equilibrium of octadecylsilica gel with sodium dodecyl sulphate 515(1990)67

Effect of sodium dodecyl sulphate in protein samples on separation with free capillary zone electrophoresis 545(1991)397

Sodium halides

Application of macrocyclic ligands to ion chromatography (Review) 546(1991)73

Sodium hydroxide

Applications of gel filtration chromatography for

resole phenolic resins using aqueous sodium hydroxide as solvent 513(1990)271

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Sodium iodide

Trifluoroacetic anhydride–sodium iodide as a reagent for the selective detection of nitroso compounds by thin-layer chromatography 516(1990)467

Sodium 2-mercaptoethanesulphonate

High-performance liquid chromatographic determination of aliphatic thiols with acryloyl acrylic acids as fluorogenic precolumn derivatization reagents 507(1990)451

Sodium metabisulphite

High-performance liquid chromatographic investigation of the interaction of phenylmercuric nitrate and sodium metabisulphite in eye drop formulations 511(1990)233

Sodium periodate

Determination of pseudouridine in human urine and serum by high-performance liquid chromatography with post-column fluorescence derivatization 515(1990)495

Sodium sulphate

Separation and identification of impurities in the dye intermediate 8-amino-1-naphthol-3,6-disulphonic acid (H-acid) by high-performance liquid chromatography 514(1990)330

Sodium tetraborate

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Solamargine

Recent applications of counter-current chromatography to the isolation of bioactive natural products 538(1991)187

Solanesol

Determination of solanesol in tobacco by capillary gas chromatography 513(1990)55

α -Solanine

High-performance liquid chromatographic determination of glycoalkaloids in potato products 508(1990)141

Solasonine

Recent applications of counter-current chromatography to the isolation of bioactive natural products 538(1991)187

Soman

Capillary column gas chromatography–mass spectrometry and gas chromatography–tandem mass spectrometry detection of chemical warfare agents in a complex airborne matrix 504(1990)259

Thermal desorption–gas chromatography of some organophosphates and S-mustard after trapping on Tenax 514(1990)273

Detection of sarin and soman in a complex airborne matrix by capillary column ammonia chemical ionization gas chromatography–mass spectrometry and gas chromatography–tandem mass spectrometry 541(1991)121

Somatomedins

Application of preparative high-performance liquid chromatography to the purification of a fetal ovine insulin-like growth factor II: N-terminal sequence determinations using two different carriers 533(1990)35

Sorbic acid

Determination of sorbic acid in margarine and butter by high-performance liquid chromatography with fluorescence detection 543(1991)69

Sorbitol

Gas–liquid chromatographic assay of the components of electrochemically reduced glucose solutions. Impurities in sorbitol samples 520(1990)185

Analysis of Palatinit[®] (isomalt) and its monomers in rat intestinal samples by high-performance liquid chromatography with ultraviolet detection 527(1990)238

Sorboflavin

Determination of flavins in dairy products by high-performance liquid chromatography using sorboflavin as internal standard 511(1990)359

Sotalol

High-performance liquid chromatographic assay of sotalol: improved procedure and investigation of peak broadening 534(1990)271

Spacers

Use of discrete spacers for the separation of proteins by gel isotachopheresis 545(1991)391

Sparteine

Effective sample preparation method for extracting biologically active compounds from different matrices by a microwave technique 520(1990)257

Simultaneous determination of sparteine and its 2-dehydro and 5-dehydro metabolites in urine by high-performance liquid chromatography with electrochemical detection 529(1990)194

Spearmint oil

Computer simulation as an aid in method development for gas chromatography. II. Changes in band spacing as a function of temperature 541(1991)21

Computer simulation as an aid in method development for gas chromatography. III. Examples of its application 541(1991)35

Spermidine

Simultaneous determination of biogenic amines by reversed-phase high-performance liquid chromatography 508(1990)225

High-performance liquid chromatographic method for the determination of dansyl-polyamines 511(1990)177

Investigation of interfering products in the high-performance liquid chromatographic determination of polyamines as benzoyl derivatives 518(1990)264

Liquid chromatography-mass spectrometry studies of 9-fluorenylmethyl chloroformate derivatives of polyamines 540(1991)199

Spermidine, acetylated

Separation of spermidine derivatives by reversed-phase high-performance liquid chromatography using a UV-absorbing counter ion 508(1990)229

Spermine

Simultaneous determination of biogenic amines by reversed-phase high-performance liquid chromatography 508(1990)225

High-performance liquid chromatographic method for the determination of dansyl-polyamines 511(1990)177

Investigation of interfering products in the high-performance liquid chromatographic determination of polyamines as benzoyl derivatives 518(1990)264

Liquid chromatography-mass spectrometry studies of 9-fluorenylmethyl chloroformate derivatives of polyamines 540(1991)199

Sphingolipids

Preparative separation of sphingolipids and of individual molecular species by high-performance liquid chromatography and their identification by gas chromatography-mass spectrometry 509(1990)333

Squalane

Regression against temperature of gas chromatographic retention data 504(1990)45

Stabilizers

Pyrolytic analysis of complex stabilizers in polypropylene 505(1990)375

Stachyose

Column liquid chromatographic determination of saccharides with a single calibration graph using post-column enzyme reactors and coulometric detection 549(1991)127

Starches

Gel permeation chromatographic determination of starches using alkaline eluents 536(1991)251

Stearic acid

Identification of individual diacylglycerols by adsorption thin-layer chromatography of their coordination complexes 538(1991)373

Stearyl alcohol

Long-chain fatty alcohol quantitation in subfemtomole amounts by gas chromatography-negative ion chemical ionization mass spectrometry. Application to long-chain acyl coenzyme A measurement 509(1990)325

Steranes

Tandem mass spectrometry—an additional dimension of chromatography for the determination of biomarkers in fossil fuels (Review) 550(1991)193

Sterigmatocystin

Determination of sterigmatocystin in fermentation broths by reversed-phase high-performance liquid chromatography using post-column fluorescence enhancement 523(1990)305

Steroid hormone receptor

One-step 10^4 -fold purification of transformed glucocorticoid receptor. Method for purifying receptors associated with M_r ca. 90 000 heat-shock protein 508(1990)97

Steroids

Normal-phase high-performance liquid chromatographic analysis of polyhydroxysteroids using non-polar bonded silica columns 505(1990)408

Packed-column supercritical fluid chromatography-mass spectrometry and supercritical fluid chromatography-tandem mass spectrometry with ionization at atmospheric pressure 511(1990)257

Efficient determination of phytoecdysteroids from *Ajuga* species and *Polypodium vulgare* by high-performance liquid chromatography 514(1990)199

Ferroceneboronic acid as a derivatization reagent for the determination of brassinosteroids by high-performance liquid chromatography with electrochemical detection 515(1990)227

Supercritical fluid extraction and chromatography of steroids with Freon-22 515(1990)515

Sensitive assay system for bile acids and steroids having hydroxyl groups utilizing high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 515(1990)577

Simultaneous measurements of endogenous and deuterium-labelled tracer variants of androstenedione and testosterone by capillary gas chromatography-mass spectrometry 525(1990)15

Semi-automated high-performance liquid chromatographic method for the simultaneous assay of plasma cortisol and 11-deoxycortisol in the metyrapone test 526(1990)180

Analysis of diethylstilbestrol, dienestrol and hexestrol in biological samples by immunoaffinity extraction and gas chromatography-negative-ion chemical ionization mass spectrometry 527(1990)267

Analysis of corticosterone in rat urine by high-performance liquid chromatography and fluorimetry using post-column reaction with sulphuric acid 528(1990)453

Determination of megestrol acetate and cyproterone acetate in serum of patients with advanced breast cancer by high-performance liquid chromatography 529(1990)145

Determination of 7-dehydrocholesterol in human skin by high-performance liquid chromatography 530(1990)19

Comparison of the liquid chromatographic behaviour of selected steroid isomers using different reversed-phase materials and mobile phase compositions 537(1991)73

Determination of 19-nortestosterone, testosterone and trenbolone by gas chromatography-negative-ion mass spectrometry after formation of the pentafluorobenzylcarboxymethoxime-trimethylsilyl derivatives 547(1991)325

Analysis of steroids. XLI. Ion-pair high-performance liquid chromatographic separation of quaternary ammonium steroids on silica 550(1991)639

Sterols

Semi-preparative separation of polyhydroxylated sterols using a β -cyclodextrin high-performance liquid chromatography column 539(1991)15

Stilbene

Development and use of carbon adsorbents in the liquid chromatographic separation of isomers 506(1990)371

Streptavidin

Application of avidin-biotin technology to affinity-based separations (Review) 510(1990)3

Procedure for the purification of streptavidin by hydrophobic interaction chromatography 520(1990)325

Strontium

Use of isotachopheresis as a reference method for the simultaneous determination of barium and strontium 545(1991)475

Styrene

Studies on the selectivity of porous polymers based on polyaromatic esters 503(1990)41

Isotope dilution gas chromatography-mass spectrometry in the determination of benzene, toluene, styrene and acrylonitrile in mainstream cigarette smoke 503(1990)359

Applications of semi-micro supercritical fluid chromatography with gradient elution to synthetic oligomer separation 515(1990)629

Analytical isotachopheresis in biological monitoring of exposure to industrial chemicals (Review) 545(1991)369

Styrene-alkyl methacrylates

Separation and detection of styrene-alkyl methacrylate and ethyl methacrylate-butyl methacrylate copolymers by liquid adsorption chromatography using a dichloroethane mobile phase and a UV-detector 541(1991)375

Styrene copolymers

Liquid adsorption chromatography of styrene copolymers of methacrylates and acrylates 507(1990)473

Styrene-8,9-oxide

Direct determination of styrene-7,8-oxide in blood by gas chromatography with flame ionization detection 534(1990)67

Succinate

Computer-assisted choice of electrolyte systems and spacing constituents for two-dimensional capillary isotachopheresis 509(1990)287

Succinic acid

Utilization of capillary isotachopheresis in the determination of organic acids in food 509(1990)283

Succinylcholine

Determination of succinylcholine hydrolytic enzyme activity in human plasma 533(1990)23

Succinylcholine hydrolytic enzyme

Determination of succinylcholine hydrolytic enzyme activity in human plasma 533(1990)23

Sucrose

Simultaneous determination of organic acids and sugars in apples by gas-liquid chromatography 520(1990)201

Column liquid chromatographic determination of saccharides with a single calibration graph using post-column enzyme reactors and coulometric detection 549(1991)127

Sucrose fatty acid esters

Determination of non-ionic surfactants with ester groups by high-performance liquid chromatography with post-column derivatization 541(1991)431

Sucrose monostearate

Chromatographic separations of sucrose monostearate structural isomers 522(1990)245

Sudan III

Toroidal coil centrifugal partition chromatography, a method for measuring partition coefficients 538(1991)119

Sugar phosphates

High-performance reversed-phase ion-pair chromatographic study of myo-inositol phosphates. Separation of myo-inositol phosphates, some common nucleotides and sugar phosphates 523(1990)201

Sugars

see also Carbohydrates and Saccharides

Simultaneous determination of neutral and amino sugars in biological materials 513(1990)71

Separation and partial characterization of Maillard reaction products by capillary zone electrophoresis 516(1990)287

Sulbactam

Simultaneous determination of ampicillin and sulbactam by liquid chromatography: post-column reaction with sodium hydroxide and sodium hypochlorite using an active hollow-fibre membrane reactor 532(1990)87

2-Sulfanilamidopyridine

High-performance liquid chromatography of sulfapyridine and its acetyl and glucuronide metabolites in rat and human urine 534(1990)214

Sulfapyridine

High-performance liquid chromatography of sulfapyridine and its acetyl and glucuronide metabolites in rat and human urine 534(1990)214

Sulindac

Determination of non-steroidal anti-inflammatory analgesics in solid dosage forms by high-performance liquid chromatography on underivatized silica with aqueous mobile phase 504(1990)381

Liquid chromatography with amperometric detection for the determination of non-steroidal anti-inflammatory drugs in plasma 533(1990)125

Sulphadimethoxine

High-performance liquid chromatographic analysis of Romet-30® in salmon following administration of medicated feed 518(1990)179

High-performance liquid chromatography of sulphadimethoxine and its N_1 -glucuronide, N_4 -acetyl and N_4 -acetyl- N_1 -glucuronide metabolites in human plasma and urine 526(1990)119

Simultaneous determination of residual synthetic antibacterials in fish by high-performance liquid chromatography 538(1991)484

Sulphadimethoxine- N_1 -glucuronide

High-performance liquid chromatography of sulphadimethoxine and its N_1 -glucuronide, N_4 -acetyl and N_4 -acetyl- N_1 -glucuronide metabolites in human plasma and urine 526(1990)119

Sulphadimidine

Capillary gas chromatographic determination of sulphadimidine in pork tissues 503(1990)260

Sulphamethazine

Identification and determination of sulphamethazine and N^4 -acetylsulphamethazine in meat by high-performance liquid chromatography with photodiode-array detection 502(1990)371

Solid-phase extraction of sulfamethazine in milk with quantitation at low ppb levels using thin-layer chromatography 519(1990)179

Analysis of sulphonamides using supercritical fluid chromatography and supercritical fluid chromatography-mass spectrometry 540(1991)239

Sulphamethoxazole

Comparison of colorimetric and high-performance liquid chromatographic determination of sulphamethoxazole and acetylsulphamethoxazole 527(1990)174

Ion-paired high-performance liquid chromatographic separation of trimethoprim, sulphamethoxazole and N^4 -acetylsulphamethoxazole with solid-phase extraction 528(1990)235

Sulphamonomethoxine

Simultaneous determination of residual synthetic antibacterials in fish by high-performance liquid chromatography 538(1991)484

3-Sulphamoylmethyl-1,2-benzisoxazole

Determination of zonisamide (3-sulphamoylmethyl-1,2-benzisoxazole) in plasma at therapeutic concentrations by high-performance liquid chromatography 534(1990)173

Sulphasalazine

Determination of 5-aminosalicylic acid and related compounds in raw materials and pharmaceutical dosage forms by high-performance liquid chromatography 540(1991)416

Sulphate

Comparative analysis of organic acids located on the surface of natural building stones by high-performance liquid, gas and ion chromatography 514(1990)241

Analysis of atmospheric precipitation by reversed-phase ion-pair chromatography 514(1990)362

Simultaneous determination of extractable sulphate and malate in plant extracts using ion chromatography 514(1990)371

Ion-exchange separation of inorganic anions on a HEMA 1000 Q-L column 520(1990)349

Quantitation of free sulfate and total sulfoesters in human breast milk by ion chromatography 527(1990)41

Sample preparation for ion chromatography by solid-phase extraction 546(1991)61

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Recent advances in the simultaneous determination of anions and silica in high-purity water 546(1991)209

On-column matrix elimination of high levels of chloride and sulfate in non-suppressed ion chromatography 546(1991)221

Ion chromatography for the analysis of household consumer products 546(1991)351

Ion chromatography in the manufacture of multilayer circuit boards 546(1991)369

Analysis of anion constituents of urine by inorganic capillary electrophoresis 546(1991)459

Sulphatide

Improved separation of lysoglycolipids from solvolysates by reversed-phase high-performance liquid chromatography 549(1991)133

Sulphide

Simultaneous gas chromatographic determination of cyanide, iodide, nitrite, sulphide and thiocyanate anions by derivatization with pentafluorobenzyl bromide and using a kryptand as phase-transfer catalyst 502(1990)257

Gas chromatographic determination of traces of light hydrocarbons and sulphur compounds in gases at low pressure by the simultaneous use of flame ionization and flame photometric detectors 521(1990)99

Determination of sulfide in brain tissue and rumen fluid by ion-interaction reversed-phase high-performance liquid chromatography 526(1990)540

Sulphinic acid

High-performance liquid chromatographic investigation of the interaction of phenylmercuric nitrate and sodium metabisulphite in eye drop formulations 511(1990)233

Sulphisozole

Simultaneous determination of residual synthetic antibacterials in fish by high-performance liquid chromatography 538(1991)484

Sulphite

Sulfite–disulfite equilibrium on an ion chromatography column 508(1990)271

The use of pulsed amperometry combined with ion-exclusion chromatography for the simultaneous analysis of ascorbic acid and sulfite 546(1991)119

Sulpho esters

Quantitation of free sulfate and total sulfoesters in human breast milk by ion chromatography 527(1990)41

Sulphonamides

Method for the isolation and liquid chromatographic determination of eight sulfonamides in milk 502(1990)87

Capillary gas chromatographic determination of sulphadimidine in pork tissues 503(1990)260

Analysis of sulphonamides using supercritical fluid chromatography and supercritical fluid chromatography–mass spectrometry 540(1991)239

Improvement of chemical analysis of antibiotics. XVII. Application of an amino cartridge to the determination of residual sulphonamide antibacterials in meat, fish and egg 541(1991)393

Optimization of chromatographic selectivity of twelve sulphonamides in reversed-phase high-performance liquid chromatography using mixture designs and multi-criteria decision making 545(1991)101

High-performance liquid chromatographic determination of low levels of primary and secondary amines in aqueous solutions including 2-amino-2-methylpropanol by pre-column derivatisation to sulphonamides 547(1991)447

Sulphonates

Gas chromatographic method for the assay of aliphatic and aromatic sulphonates as their *tert.*-butyldimethylsilyl derivatives 513(1990)61

Sulphonylureas

Simultaneous determination of the sulphonylurea glimepiride and its metabolites in human serum and urine by high-performance liquid chromatography after pre-column derivatization 526(1990)497

Sulphur

Element-selective detection after supercritical fluid chromatography by means of a Surfatron plasma in the near-infrared spectral region 517(1990)477

Sulphur chlorides

Determination of impurities in thionyl chloride by gas chromatography 520(1990)163

Sulphur dioxide

Determination of impurities in thionyl chloride by gas chromatography 520(1990)163

Sulphuryl chloride

Determination of impurities in thionyl chloride by gas chromatography 520(1990)163

Sunscreen agents

Determination of sunscreen agents in cosmetic products by gas chromatography and gas chromatography–mass spectrometry 513(1990)321

Sunset Yellow FCF

Isotachopheresis of some synthetic colorants in foods 545(1991)413

Superdex 75 prep grade

Chemical properties of and solute-support interactions with the gel filtration medium Superdex 75 prep grade 514(1990)137

Superoxide dismutase

Isolation of isoproteins from monoclonal antibodies and recombinant proteins by chromatofocusing 512(1990)157

Immobilized metal ion affinity partitioning, a method combining metal-protein interaction and partitioning of proteins in aqueous two-phase systems 539(1991)267

Glycosylation of extracellular superoxide dismutase studied by high-performance liquid chromatography and mass spectrometry 548(1991)293

Suprofen

Determination of the enantiomers of suprofen and [²H₃]suprofen in plasma by capillary gas chromatography-mass spectrometry 525(1990)93

Suramin

Bioanalysis of suramin in human plasma by ion-pair high-performance liquid chromatography 525(1990)141

Surfactants

Use of non-ionic and zwitterionic surfactants to enhance selectivity in high-performance capillary electrophoresis. An apparent micellar electrokinetic capillary chromatography mechanism 503(1990)449

Supercritical fluid chromatography-mass spectrometry of non-ionic surfactant materials using chloride-attachment negative ion chemical ionization 505(1990)199

Chromatographic separation of surfactants. XII. Quantification of results in trial high-performance liquid chromatography of ethoxylated surfactants 509(1990)201

Optimization of high-performance liquid chromatographic analysis with UV detection: light-scattering detection to establish the coelution of UV- and non-UV-absorbing constituents 513(1990)354

Analysis of carbamazepine in serum by liquid chromatography with direct sample injection and surfactant-containing eluents 535(1990)293

Determination of non-ionic surfactants with ester groups by high-performance liquid chromatography with post-column derivatization 541(1991)431

Syringaldehyde

Optimization of electrochemical detection in the high-performance liquid chromatography of lignin phenolics from lignocellulosic by-products 507(1990)439

Syringic acid

Optimization of electrochemical detection in the high-performance liquid chromatography of lignin phenolics from lignocellulosic by-products 507(1990)439

T**T-2 toxin**

Heptafluorobutyrylation of trichothecenes using a solid-phase catalyst 511(1990)384

Use of 1-[*p*-(2,3-dihydroxypropoxy)phenyl]-1-alkanones as retention index standards in the identification of trichothecenes by liquid chromatography-thermospray and dynamic fast atom bombardment mass spectrometry 543(1991)39

Tachykinins

High-performance liquid chromatographic separation of tachykinins using Tris-phosphate as the buffer component of the mobile phase 533(1990)179

Tacrine

High-performance liquid chromatography for the determination of tacrine and its metabolites in plasma 530(1990)170

Tamoxifen

Identification of products formed during UV irradiation of tamoxifen and their use for fluorescence detection in high-performance liquid chromatography 514(1990)179

Tannic acid

High-performance liquid chromatographic method for the comparison of tanning capacity of tannic acid batches used in the manufacture of pregnancy testing kits 513(1990)263

Tanshinones

High-performance liquid chromatography of abietane-type compounds 542(1991)317

Tartaric acid

Utilization of capillary isotachopheresis in the determination of organic acids in food 509(1990)283

Tartrate

Ion chromatography in the manufacture of multilayer circuit boards 546(1991)369

Tartrazine

Isotachopheresis of some synthetic colorants in foods 545(1991)413

Taurine

Analysis of taurine in feline plasma and whole blood by liquid chromatography with fluorimetric detection and confirmation by thermospray mass spectrometry 526(1990)375

Tauromustine

Determination of tauromustine and its demethylated metabolites in plasma and urine 526(1990)151

Tea

Rapid determination of caffeine in green tea by gas-liquid chromatography with nitrogen-phosphorus-selective detection 505(1990)435

Tear protein

Analysis of human tear proteins by different high-performance liquid chromatographic techniques 525(1990)319

Tebufelone

Determination of tebufelone (a new anti-inflammatory drug) strength and stability in bulk drug, dosage formulations and feed admixtures by reversed-phase high-performance liquid chromatography 505(1990)349

Tebuthiuron

Simplified high-performance liquid chromatography method for the simultaneous analysis of tebuthiuron and hexazinone 536(1991)223

Temafloxacin

Determination of minor impurities in temafloxacin hydrochloride by high-performance liquid chromatography 519(1990)125

Tenax

Sorption of primary *n*-alkanols on Tenax 518(1990)234

Tenilsetam

Determination of tenilsetam in human plasma and urine by high-performance liquid chromatography 529(1990)486

Tentoxin

High-performance liquid chromatographic determination of tentoxin in fermentation of *Alternaria porri* (Ellis) Ciferri 539(1991)211

Terallethrin

Elution orders in the separation of enantiomers by high-performance liquid chromatography with some chiral stationary phases 535(1990)213

Terbufos

Simple, direct gas chromatography-mass spectrometry interface for the ion trap detector 504(1990)429

Terbufos sulphone

Simple, direct gas chromatography-mass spectrometry interface for the ion trap detector 504(1990)429

Terbufos sulphoxide

Simple, direct gas chromatography-mass spectrometry interface for the ion trap detector 504(1990)429

Terbutaline

Use of cyclodextrins in capillary zone electrophoresis. Resolution of terbutaline and propranolol enantiomers 545(1991)437

Terminal deoxynucleotidyl transferase

Use of immobilized triazine dyes in the purification of DNA topoisomerase I (Topo I) and terminal deoxynucleotidyl transferase (TdT) from calf thymus 539(1991)525

Terpanes

Tandem mass spectrometry—an additional dimension of chromatography for the determination of biomarkers in fossil fuels (Review) 550(1991)193

Terpene alcohols

Photochemical reaction coupled to solid-state peroxyoxalate chemiluminescence for the high-performance liquid chromatographic detection of compounds having weak chromophores 523(1990)163

Terpenes

Gas chromatographic determination of monoterpenes in essential oil medicinal plants 542(1991)451

Approach to direct chiral recognition of some terpenic hydrocarbon constituents of essential oils by gas chromatography systems via β -cyclodextrin complexation 543(1991)171

Chromatographic analysis of some commercial samples of camphene via cyclodextrin inclusion processes 543(1991)397

Terpenic alcohols

Direct liquid chromatographic separation of enantiomeric and diastereomeric terpenic alcohols as β -cyclodextrin inclusion complexes 503(1990)266

Terpenoid compounds

Chemical characteristics of herbivore defenses in *Betula pendula* winter-dormant young stems 547(1991)367

Terpenoids

Evaluation of high-performance liquid and capillary gas chromatography for analysis of sesquiterpene lactones of the Melampodiinae 504(1990)151

Use of two-dimensional gas chromatography in the direct enantiomer separation of chiral essential oil components 508(1990)341

Simple method for the isolation of azadirachtin by preparative high-performance liquid chromatography 513(1990)389

Determination of ginkgolides and bilobalide in *Ginkgo biloba* leaves and phytopharmaceuticals 543(1991)375

Use of a liquid crystal stationary phase at temperatures below its melting point for the gas chromatographic study of some volatile oil constituents 547(1991)335

Testosterone

Simultaneous measurements of endogenous and deuterium-labelled tracer variants of

androstenedione and testosterone by capillary gas chromatography-mass spectrometry 525(1990)15

Determination of 19-nortestosterone, testosterone and trenbolone by gas chromatography-negative-ion mass spectrometry after formation of the pentafluorobenzylcarboxymethoxime-trimethylsilyl derivatives 547(1991)325

Testosterone esters

Simultaneous pH and ionic strength effects and buffer selection in capillary electrophoretic techniques 541(1991)483

Tetanus antitoxin

Use of chromatography for the preparation of homologous tetanus antitoxin 520(1990)425

Tetraalkylammonium ions

Gas chromatographic properties of organoammonium exchanged montmorillonites. I. Tetraalkylammonium cations 549(1991)273

Tetrabromotetrachlorofluorescein

Preparative purification of tetrabromotetrachlorofluorescein and Phloxine B by centrifugal counter-current chromatography 538(1991)157

Tetrabutylammonium chloride

Retention of some organic electrolytes in ion-pair reversed-phase high-performance liquid and reversed-phase high-performance thin-layer chromatographic systems 520(1990)403

Tetra-*n*-butyltin

Sheathed-flow hydrogen atmosphere flame ionization detector for gas chromatography 518(1990)297

Tetrachlorodibenzo-*p*-dioxins

Separation of highly hydrophobic compounds by cyclodextrin-modified micellar electrokinetic chromatography 516(1990)23

Tetrachloroethene

Comparison of quarter-hourly on-line dynamic headspace analysis to purge-and-trap analysis of varying volatile organic compounds in drinking water sources 513(1990)47

Sorption isotherms of organic vapours on Tenax 514(1990)279

Use of ion-exclusion chromatography for monitoring fatty acids produced by bacterial anaerobic degradation of tetrachloroethene in ground water 536(1991)193

Tetrachloroquinone

Simultaneous assay of pentachlorophenol and its metabolite, tetrachloroquinone, by gas chromatography without derivatization 533(1990)111

Tetracyclines

High-performance liquid chromatographic procedures in monitoring the production and quality control of chlortetracycline 509(1990)189

Tetraethylene glycol dimethyl ether

Regression against temperature of gas chromatographic retention data 504(1990)45

Tetrahydroaminoacridine

Simultaneous determination of physostigmine and tetrahydroaminoacridine in a transdermal permeation study by high-performance liquid chromatography 526(1990)87

Tetrahydrocannabinols

Determination of cannabinoid acids by high-performance liquid chromatography of their neutral derivatives formed by thermal decarboxylation. I. Study of the decarboxylation process in open reactors 520(1990)339

4,2',4',6'-Tetrahydrochalcone-2'-glucoside

High-performance liquid chromatographic determination of flavonoid glucosides from *Helichrysum italicum* 537(1991)449

Tetrahydro-4-oxopyridopyrimidine

Correlation between structure and gas chromatographic behaviour of nitrogen-containing heterocyclic compounds. I. Methyl substitution of pyridopyrimidine derivatives 537(1991)365

Tetrahydropapaveroline

Chiral separation of diltiazem, trimetoquinol and related compounds by micellar electrokinetic chromatography with bile salts 515(1990)233

1,2,3,4-Tetraisoquinoline

Endogenous synthesis of N-methyl-1,2,3,4-tetrahydroisoquinoline, a precursor of N-methylisoquinolinium ion, in the brains of primates with parkinsonism after systemic administration of 1,2,3,4-tetrahydroisoquinoline 533(1990)145

 α -Tetralone

Utility of the displacement effect in the routine optimization of separations by preparative liquid chromatography 523(1990)63

 β -Tetralone

Utility of the displacement effect in the routine optimization of separations by preparative liquid chromatography 523(1990)63

Tetramethrine

Determination of permethrine and tetramethrine by isotachophoretic analysis of hydrolytic products 545(1991)427

Tetramethylammonium chloride

Gas chromatographic retention properties of organoammonium exchanged montmorillonites. II. $\text{CH}_3\text{N}^+\text{H}_3$, $(\text{CH}_3)_4\text{N}^+$, $(\text{CH}_3)_3\text{N}^+\text{CH}_2\text{C}_6\text{H}_5$ and 1,4-diazabicyclo[2.2.2]octane $\cdot 2\text{H}^+$ 549(1991)283

Tetramethylscutellarein

High-performance liquid chromatography with diode-array ultraviolet detection of methoxylated flavones in *Orthosiphon* leaves 547(1991)439

Tetraphenylporphine complexes

High-performance thin-layer chromatography of rare earth tetraphenylporphine complexes 504(1990)179

Factors influencing the retention of rare earth-tetraphenylporphine complexes in reversed-phase high-performance liquid chromatography 542(1991)351

Tetra-*n*-propyltin

Sheathed-flow hydrogen atmosphere flame ionization detector for gas chromatography 518(1990)297

Tetrapyrroles

High-performance liquid chromatographic analysis of bile pigments as their native tetrapyrroles and as their dipyrrolic azosulfanilate derivatives 529(1990)287

Tetrapyrroles, carboxylated

Separation of porphyrins on cyclodextrin-bonded phases with a novel mobile phase 508(1990)375

Thallium

Use of crown ethers in the isotachophoretic determination of metal ions 523(1990)281

Theaflavins

Comparative study of the reversed-phase high-performance liquid chromatography of black tea liquors with special reference to the thearubigins 542(1991)115

Thearubigins

Counter-current chromatography of black tea infusions 505(1990)357

Comparative study of the reversed-phase high-performance liquid chromatography of black tea liquors with special reference to the thearubigins 542(1991)115

Thebaine

Extraction of major alkaloids from poppy straw with near-critical mixtures of carbon dioxide and polar modifiers 505(1990)247

Comparison of octadecyl-bonded alumina and silica for reversed-phase high-performance liquid chromatography 505(1990)307

Separation of opium alkaloids by thin-layer chromatography combined with flame ionization detection using the peak pyrolysis method 547(1991)538

2-(α -Thenoylthio)propionylglycine

High-performance liquid chromatographic evaluation of 2-(α -thenoylthio)propionylglycine and its two metabolites in biological fluids 536(1991)327

Theobromine

Determination of anticonvulsant drugs and methyl xanthine derivatives in serum by liquid chromatography with direct injection: column-switching method using a new internal-surface reversed-phase silica support as a precolumn 529(1990)455

Synthesis of mixed-functional-phase silica supports for liquid chromatography and their applications to assays of drugs in serum 535(1990)163

Theophylline

Multiple absorbance ratio correlation — a new approach for assessing peak purity in liquid chromatography 506(1990)289

Simultaneous analysis of theophylline, caffeine and eight of their metabolic products in human plasma by gradient high-performance liquid chromatography 507(1990)199

Direct sample injection into the high-performance liquid chromatographic column in theophylline monitoring 515(1990)321

Determination of anticonvulsant drugs and methyl xanthine derivatives in serum by liquid chromatography with direct injection: column-switching method using a new internal-surface reversed-phase silica support as a precolumn 529(1990)455

Synthesis of mixed-functional-phase silica supports for liquid chromatography and their applications to assays of drugs in serum 535(1990)163

Thermitase

High-performance liquid chromatographic method for the study of solvent effects on the peptidase and esterase activity of thermitase 520(1990)333

Thermolysin

Mobile phase effects in the high-performance affinity purification of thermolysin 549(1991)195

Thiamine

Determination of water-soluble vitamins in blood and plasma by coupled-column liquid chromatography 506(1990)471

High-performance liquid chromatographic determination of biotin in pharmaceutical preparations by post-column fluorescence reaction with thiamine reagent 542(1991)365

Thiazolidines

High-performance liquid chromatography of thiazolidinic compounds 514(1990)80

Thiazolidinones

Thin-layer chromatography of thiazolidinones. I 542(1991)531

Thieno[2,3-*b*]thiopyran-2-sulphonamide

Development of direct stereoselective and non-stereoselective assays in biological fluids for the enantiomers of a thieno[2,3-*b*]thiopyran-2-sulfonamide, a topically effective carbonic anhydrase inhibitor 526(1990)461

Thimerosal

Simultaneous determination of thimerosal and chlorhexidine in solutions for soft contact lenses and its applications in stability studies 523(1990)321

High-performance liquid chromatographic assay of thiomersal (thimerosal) as the ethylmercury dithiocarbamate complex 542(1991)137

Thioalcohols

Topological indices as structural parameters. Structure-retention relationships for oxyethylene derivatives of alcohols, thioalcohols and alkylamines 547(1991)247

Thioalkyl agaroses

Synthesis and protein-binding properties of spacer-free thioalkyl agaroses 521(1990)1

Thiobenzanilides

Chromatographie en couche mince sur gel de silice avec double imprégnation ascendante à sens inversés à l'huile de silicone 509(1990)400

Thiocyanate

Ion chromatography with ultraviolet and amperometric detection for iodide and thiocyanate in concentrated salt solutions 502(1990)121

Simultaneous gas chromatographic determination of cyanide, iodide, nitrite, sulphide and thiocyanate anions by derivatization with pentafluorobenzyl bromide and using a kryptand as phase-transfer catalyst 502(1990)257

Use of cyclodextrins in the isotachophoretic determination of various inorganic anions 518(1990)189

Determination of free cyanide in gold cyanidation process liquors by ion-interaction chromatography with post-column derivatization 550(1991)559

Thiodiglycol

Quantification of thiodiglycol in urine by electron ionization gas chromatography-mass spectrometry 528(1990)184

Thioethoxylates

Use of sulfur chemiluminescence detection after supercritical fluid chromatography 517(1990)491

Thioglucuronide

Measurement of the formation of a thioglucuronide, a metabolite of malotilate, in rat hepatic microsomes by high-performance liquid chromatography 526(1990)254

 α -Thioglycerol

High-performance liquid chromatography of thiols with differential pulse polarographic detection of the catalytic hydrogen evolution current 515(1990)257

Thiohydrazides

Chromatographie en couche mince sur gel de silice avec double imprégnation ascendante à sens inversés à l'huile de silicone 509(1990)400

Thiolactones

2,4-Dinitrophenylpyridium chloride, a novel and versatile reagent for the detection of amino acids, primary and secondary amines, thiols, thiolactones and carboxylic acids during planar chromatography 504(1990)456

Thiols

2,4-Dinitrophenylpyridium chloride, a novel and versatile reagent for the detection of amino acids, primary and secondary amines, thiols, thiolactones and carboxylic acids during planar chromatography 504(1990)456

Application of micro-scale liquid chromatography with fluorescence detection to the determination of thiols 514(1990)189

High-performance liquid chromatography of thiols with differential pulse polarographic detection of the catalytic hydrogen evolution current 515(1990)257

Gas chromatographic determination of traces of light hydrocarbons and sulphur compounds in gases at low pressure by the simultaneous use of flame ionization and flame photometric detectors 521(1990)99

Generation of standard gaseous mixtures by thermal decomposition of surface compounds. Standard mixtures of thiols 540(1991)449

Thiomalic acid

High-performance liquid chromatography of thiols with differential pulse polarographic detection of the catalytic hydrogen evolution current 515(1990)257

Thionalide

High-performance liquid chromatography of thiols with differential pulse polarographic detection of the catalytic hydrogen evolution current 515(1990)257

Thionicotinamide

Capillary tube isotachophoretic separation of niacin derivatives 521(1990)158

Thionyl chloride

Determination of impurities in thionyl chloride by gas chromatography 520(1990)163

Thiopental

Determination of thiopental measured in human blood by reversed-phase high-performance liquid chromatography 527(1990)220

Thiophenecarboxylic acid

High-performance liquid chromatographic evaluation of 2-(α -thenoylthio)propionylglycine and its two metabolites in biological fluids 536(1991)327

Thiopronine

High-performance liquid chromatographic evaluation of 2-(α -thenoylthio)propionylglycine and its two metabolites in biological fluids 536(1991)327

Thioridazine

Determination of the serum concentrations of thioridazine and its main metabolites using a solid-phase extraction technique and high-performance liquid chromatography 529(1990)229

Thiosulphinat esters

Enantiomeric separation of racemic thiosulphinat esters by high-performance liquid chromatography 541(1991)464

6-Thiouric acid

Isolation of 6-mercaptopurine in human plasma by aluminum ion complexation for high-performance liquid chromatographic analysis 536(1991)349

Thrombin

Double-coated silica supports for high-performance affinity chromatography of proteins 510(1990)71

Specific adsorption of serine proteases on coated silica beads substituted with amidine derivatives 510(1990)123

Thromboxanes

11-Dehydrothromboxane B₂: convenient preparation of its stable isotope-labelled analogue for use in quantitative gas chromatography-mass spectrometry 526(1990)169

High-performance liquid chromatographic detection of myocardial prostaglandins and thromboxanes 536(1991)309

Thymidine

Adduct formation identification between phenyl glycidyl ether and 2'-deoxyadenosine and

thymidine by chromatography, mass spectrometry and nuclear magnetic resonance spectroscopy 504(1990)113

Thymidine hydroperoxides

Analysis of thymidine hydroperoxides by post-column reaction high-performance liquid chromatography 504(1990)191

Thymine

Determination of creatinine-related urinary uracil excretion in children by high-performance liquid chromatography 525(1990)277

Thymol blue

High-pressure and supercritical capillary electrophoresis 517(1990)573

Thyroid-stimulating hormone

Separation of human glycoprotein hormones and their subunits by reversed-phase liquid chromatography 529(1990)33

L-Thyroxine

Determination of L-thyroxine in reference serum preparations as the *o*-phthalaldehyde-N-acetylcysteine derivative by reversed-phase liquid chromatography with electrochemical detection 525(1990)287

Tibenelast

Determination of a potential antiasthmatic compound, tibenelast, and its application to phase I clinical trials 529(1990)377

Timolol

Direct separation and optimization of timolol enantiomers on a cellulose tris-3,5-dimethylphenylcarbamate high-performance liquid chromatographic chiral stationary phase 511(1990)109

Identification using solid phase extraction and gas chromatography-mass spectrometry of timolol in equine urine after intravenous administration 518(1990)215

Simple and sensitive determination of timolol in human plasma and urine by high-performance liquid chromatography with ultraviolet detection 533(1990)255

Tinuins

Characterization of polymer additives by supercritical fluid chromatography and by liquid chromatography 505(1990)283

Pyrolytic analysis of complex stabilizers in polypropylene 505(1990)375

Retention prediction for polymer additives in reversed-phase liquid chromatography 550(1991)325

Tissue plasminogen activator

Affinity purification of tissue plasminogen activator using transition-state analogues 510(1990)83

Use of high-performance capillary electrophoresis to monitor charge heterogeneity in recombinant-DNA derived proteins 516(1990)115

Immobilized metal ion affinity partitioning, a method combining metal-protein interaction and partitioning of proteins in aqueous two-phase systems 539(1991)267

Titanium dioxide

Potential-barrier field-flow fractionation, a versatile new separation method 517(1990)345

Titanium oxide

Titania and zirconia: possible new ceramic microparticulates for high-performance liquid chromatography 515(1990)149

Porous zirconia and titania as packing materials for high-performance liquid chromatography 535(1990)111

Tobramycin

High-performance liquid chromatographic determination of isepamicin in plasma, urine and dialysate 526(1990)487

Determination of tobramycin using high-performance liquid chromatography with pulsed amperometric detection 527(1990)244

Tocopherols

Isolation of tocopherols from wheat germ oil by recycle semi-preparative supercritical fluid chromatography 505(1990)257

Determination of α -tocopherol, free cholesterol, esterified cholesterols and triacylglycerols in human lipoproteins by high-performance liquid chromatography 515(1990)585

Applications of preparative high-performance liquid chromatography in oleochemical research 536(1991)75

Tolmetin

Determination of non-steroidal anti-inflammatory analgesics in solid dosage forms by high-performance liquid chromatography on underivatized silica with aqueous mobile phase 504(1990)381

Tolperisone

(*R*)- and (*S*)-Naphthylethylcarbamate-substituted β -cyclodextrin bonded stationary phases for the reversed-phase liquid chromatographic separation of enantiomers 539(1991)83

Toluene

Improvement of activated carbon for air sampling 503(1990)33

Isotope dilution gas chromatography-mass spectrometry in the determination of benzene, toluene, styrene and acrylonitrile in mainstream cigarette smoke 503(1990)359

Retention times and heats of adsorption of aromatic compounds on carbon adsorbents 506(1990)335

Comparison of discharge tubes for deuterium-specific gas chromatographic detection with a microwave-induced plasma 508(1990)187

Liquid chromatography of liquid substances characterized by limited solubility in the eluent 509(1990)157

Monosized polymer particles in size-exclusion chromatography. I. Toluene as solvent 514(1990)1

Systematic errors with the use of internal standard calibration in gas chromatographic headspace analysis 518(1990)1

Multi-component principal component regression and partial least-squares analyses of overlapped chromatographic peaks 539(1991)123

Determination of monocyclic aromatic hydrocarbons in plant cuticles by gas chromatography-mass spectrometry 541(1991)83

Analytical isotachopheresis in biological monitoring of exposure to industrial chemicals (Review) 545(1991)369

Toluidines

Chromatographic characterization of silica-based reversed phases (Review) 544(1991)371

Toxic substances

Analysis of drugs and other toxic substances in biological samples for pharmacokinetic studies 531(1990)3

Toxins

Internal surface reversed-phase high-performance liquid chromatographic separation of the cyanobacterial peptide toxins microcystin-LA, -LR, -YR, -RR and nodularin 509(1990)390

Analysis of paralytic shellfish poisons by capillary electrophoresis 542(1991)483

Trace metals

Preconcentration of divalent trace metals on chelating silicas followed by on-line ion chromatography 541(1991)443

Transcription factors

Purification of the upstream element factor of the Adenovirus-2 major late promoter from HeLa and yeast by sequence-specific DNA affinity chromatography 510(1990)243

Transferrin

Tresyl-activated support for high-performance affinity chromatography 510(1990)101

Oligosaccharide mapping of therapeutic glycoproteins by high-pH anion-exchange high-performance liquid chromatography 512(1990)149

Binding capacities of hydroxyapatite for globular proteins 515(1990)193

Apparatus for coupled high-performance liquid chromatography and capillary electrophoresis in the analysis of complex protein mixtures 515(1990)659

Metal ligand-induced alterations in the surface structures of lactoferrin and transferrin probed by interaction with immobilized copper(II) ions 536(1991)1

Determination of pI by measuring the current in the mobilization step of high-performance capillary isoelectric focusing. Analysis of transferrin forms 545(1991)403

Transforming growth factor

Separation and microanalysis of growth factors by Phast system gel electrophoresis and by DNA synthesis in cell culture 543(1991)463

Transition metals

Separation of cations using methacrylate-based low-capacity cation exchangers 509(1990)369

Preparative isotachophoretic analyser equipped with a dropwise fractionating device 513(1990)297

Progress in optimization of transition metal cation chromatography and its application to analysis of silicon wafer contamination 546(1991)243

T4 receptor protein

Use of high-performance capillary electrophoresis to monitor charge heterogeneity in recombinant-DNA derived proteins 516(1990)115

Trehalose

Isolation of the insect metabolite trehalose by high-performance liquid chromatography 515(1990)573

Trenbolone

Packed-column supercritical fluid chromatography-mass spectrometry and supercritical fluid chromatography-tandem mass spectrometry with ionization at atmospheric pressure 511(1990)257

Determination of 19-nortestosterone, testosterone and trenbolone by gas chromatography-negative-ion mass spectrometry after formation of the pentafluorobenzylcarboxymethoxime-trimethylsilyl derivatives 547(1991)325

Tretinoin

Determination of tretinoin in creams by high-performance liquid chromatography 522(1990)227

Triacylglycerols

Determination of α -tocopherol, free cholesterol, esterified cholesterols and triacylglycerols in human lipoproteins by high-performance liquid chromatography 515(1990)585

Static coating of 5 to 50 μm I.D. capillary columns for open tubular column chromatography 517(1990)503

Effect of carbon dioxide flow-rate on the separation of triacylglycerols by capillary supercritical fluid chromatography 518(1990)69

Dynamic impregnation of silica stationary phases for the argentation chromatography of lipids 519(1990)349

Packed-microbore supercritical fluid chromatography with flame ionization detection of abused vegetable oils 540(1991)271

Determination of egg yolk cholesterol content by on-column capillary gas chromatography 540(1991)323

Determination of plant triacylglycerols using capillary gas chromatography, high-performance liquid chromatography and mass spectrometry 542(1991)145

Determination of bovine butterfat triacylglycerols by reversed-phase liquid chromatography and gas chromatography 543(1991)81

Role of π - π interactions in reversed-phase liquid chromatography 550(1991)267

Separation of triacylglycerols by supercritical-fluid argentation chromatography 550(1991)765

Triazines

Analysis of triazine and triazole herbicides by gradient-elution supercritical fluid chromatography 505(1990)293

Characterization of the thermal decomposition products of the sulfonylurea herbicide chlorsulfuron 505(1990)395

Reversed-phase high-performance liquid chromatographic method for the determination of soil-bound [14 C]atrazine and its radiolabeled metabolites in a soil metabolism study 514(1990)209

Systematic search for suitable two-phase solvent systems for high-speed counter-current chromatography 538(1991)99

Use of immobilized triazine dyes in the purification of DNA topoisomerase I (Topo I) and terminal deoxynucleotidyl transferase (TdT) from calf thymus 539(1991)525

Triazoles

Analysis of triazine and triazole herbicides by gradient-elution supercritical fluid chromatography 505(1990)293

Triazolines. XXII. Chromatography of 1-phenyl-5-(4-pyridyl)-*d*²-1,2,3-triazolines and related 1,2,3-triazoles, a new class of anticonvulsant agents 533(1990)248

Triazolines

Triazolines. XXII. Chromatography of 1-phenyl-5-(4-pyridyl)-*d*²-1,2,3-triazolines and related 1,2,3-triazoles, a new class of anticonvulsant agents 533(1990)248

Tributyl phosphate

Analysis of *n*-octyl(phenyl)-*N,N*-diisobutylcarbamoylmethylphosphine oxide and TRUEX process solvent by gas and liquid chromatography 516(1990)395

Simultaneous determination of tributyl phosphate and dibutyl phosphate in spent fuel reprocessing streams by gas chromatography 537(1991)489

Tri-*n*-butyl tin

Sheathed-flow hydrogen atmosphere flame ionization detector for gas chromatography 518(1990)297

Trichloroacetic acid

Determination of chloral hydrate metabolism in adult and neonate biological fluids after single-dose administration 528(1990)333

Trichloroethanol

Determination of chloral hydrate metabolism in adult and neonate biological fluids after single-dose administration 528(1990)333

Trichloroethene

Determination of biogenic and anthropogenic volatile halocarbons in sea water by liquid-liquid extraction and capillary gas chromatography 513(1990)39

Trichlorosilanes

Investigations by ²⁹Si cross-polarization magic angle spinning NMR spectroscopy of reaction pathways of silica gel polyfunctional modification 506(1990)343

Trichothecenes

Identification of trichothecenes by frit-fast atom bombardment liquid chromatography-high-resolution mass spectrometry 538(1991)323

Use of 1-*p*-(2,3-dihydroxypropoxy)phenyl]-1-alkanones as retention index standards in the identification of trichothecenes by liquid chromatography-thermospray and dynamic fast atom bombardment mass spectrometry 543(1991)39

Triclocarban

Determination of preservatives in cosmetic products by reversed-phase high-performance liquid chromatography. IV 508(1990)252

Triclosan

Determination of preservatives in cosmetic products by reversed-phase high-performance liquid chromatography. IV 508(1990)252

Tricosanoic acid

Nervonic acid *versus* tricosanoic acid as internal standards in quantitative gas chromatographic analyses of fish oil longer-chain $n-3$ polyunsaturated fatty acid methyl esters 533(1990)1

Tricothecenes

Heptafluorobutyrylation of tricothecenes using a solid-phase catalyst 511(1990)384

Use of M-series retention index standards in the identification of tricothecenes by electron impact mass spectrometry 513(1990)31

Tricyclic antidepressants

Optimization of multidimensional high-performance liquid chromatography for the determination of drugs in plasma by direct injection, micellar cleanup and photodiode array detection 507(1990)267

Detection of tricyclic antidepressants in body fluids by gas chromatography with a surface ionization detector 529(1990)189

Triethanolamine

Analytical isotachopheresis in biological monitoring of exposure to industrial chemicals (Review) 545(1991)369

Improved determination of alkanolamines by liquid chromatography with electrochemical detection 546(1991)381

Triethylamine

L-Carnitine interference in gas chromatographic determination of total trimethylamine in urine: a novel assay method 532(1990)124

Triethylamine-N-oxide

Controlled thermal degradation for the identification and quantification of amine N-oxides in urine 514(1990)293

Triethylene glycol

Regression against temperature of gas chromatographic retention data 504(1990)45

Trifluoroacetic anhydride

Trifluoroacetic anhydride-sodium iodide as a reagent for the selective detection of nitroso

compounds by thin-layer chromatography 516(1990)467

 α -Trifluoromethyl- α -amino acids

Ligand-exchange chromatography of α -trifluoromethyl- α -amino acids on chiral sorbents 511(1990)115

Trifluoperidol

High-performance liquid chromatography of droperidol in whole blood 532(1990)181

Triglycerides

see Triacylglycerols

Trimetaphosphate

Determination of trimetaphosphate in pyrophosphate by capillary isotachopheresis 516(1990)473

Trimethoprim

High-performance liquid chromatographic analysis of trimethoprim in the presence of its degradation products 513(1990)392

Ion-paired high-performance liquid chromatographic separation of trimethoprim, sulfamethoxazole and N⁴-acetylsulfamethoxazole with solid-phase extraction 528(1990)235

Gas chromatographic determination of trimethoprim in plasma during high-dose trimethoprim-sulfamethoxazole treatment for *Pneumocystis carinii* pneumonia 528(1990)243

Hydrophilic shielding of hydrophobic, cation- and anion-exchange phases for separation of small analytes: direct injection of biological fluids onto high-performance liquid chromatographic columns (Review) 544(1991)41

Trimethylamine-N-oxide

Controlled thermal degradation for the identification and quantification of amine N-oxides in urine 514(1990)293

Trimethylbiphenyls

Identification and analysis of trimethylbiphenyls in petroleum 538(1991)424

2,2,4-Trimethyl-1,2-dihydroquinoline

High-performance liquid chromatography of rubber antidegradants with diode-array detection 545(1991)205

Trimethylolpropane trimethacrylate

Polymer-bound chiral polymers for use in enantiomer separations 540(1991)145

Trimethylsilyl esters

Preparation of pyrrolidides from fatty acids via trimethylsilyl esters for gas chromatographic-mass spectrometric analysis 513(1990)405

Trimetoquinol

Chiral separation of diltiazem, trimetoquinol and related compounds by micellar electrokinetic chromatography with bile salts 515(1990)233

Trimetoquinol hydrochloride

Reversed-phase high-performance liquid chromatographic separation of the enantiomers of trimetoquinol hydrochloride by derivatization with 2,3,4,6-tetra-O-acetyl- β -D-glucopyranosyl isothiocyanate and application to the optical purity testing of drugs 539(1991)71

Trimetrexate

High-performance liquid chromatographic assay for trimetrexate in human plasma 526(1990)266

Improved chromatographic method for the determination of trimetrexate in urine 529(1990)468

2,4,6-Trinitrotoluene

Analysis of 2,4,6-trinitrotoluene and its transformation products in soils and plant tissues by high-performance liquid chromatography 518(1990)361

Triolein

Rapid and sensitive method for the quantitation of non-polar lipids by high-performance thin-layer chromatography and fluorodensitometry 549(1991)387

Triostin A

Liquid chromatographic investigation of quinoxaline antibiotics and their analogues by means of ultraviolet diode-array detection 507(1990)277

Tripeptides

Electrochemical detection of dipeptides and dipeptide amides 515(1990)451

Effects of mobile phase composition on the reversed-phase separation of dipeptides and tripeptides with cyclodextrin-bonded-phase columns 522(1990)143

Trisulphonic acid

Separation and identification of impurities in the dye intermediate 8-amino-1-naphthol-3,6-disulphonic acid (H-acid) by high-performance liquid chromatography 514(1990)330

Triterpenoids

Liquid chromatographic characterization of the triterpenoid patterns in *Ganoderma lucidum* and related species 542(1991)327

Trögers base

Coupled column chromatography in chiral separations. I. Enantiomeric separation on swollen microcrystalline cellulose triacetate columns after a preseparation on a non-chiral alkylsilica column 513(1990)195

Comparison of a new ovomucoid and a second-generation α_1 -acid glycoprotein-based chiral column for the direct high-performance liquid chromatography resolution of drug enantiomers 545(1991)43

Tropane alkaloids

Combination of ion-pair and column switching in high-performance liquid chromatography of tropane alkaloids 547(1991)175

Analysis of some tropane alkaloids in plants by mixed-column high-performance liquid chromatography 547(1991)468

Tropic acid

Gas chromatographic analysis of tropic, benzoic and cinnamic acids, biosynthetic tropane alkaloid precursors 539(1991)232

Tropicamide

(*R*)- and (*S*)-Naphthylethylcarbamate-substituted β -cyclodextrin bonded stationary phases for the reversed-phase liquid chromatographic separation of enantiomers 539(1991)83

Tropomyosins

Purification and characterization of recombinant tropomyosins 539(1991)465

Chromatographic and physical studies of tropomyosin in aqueous-organic media at low pH 543(1991)327

Truxillines

Isolation, identification and separation of isomeric truxillines in illicit cocaine 504(1990)391

Trypsin

One-step purification of trypsin and α -chymotrypsin by affinity chromatography on Eupergit-aprotinin, a novel carrier for purification of serine proteases 510(1990)239

Characteristics of ovomucoid-conjugated columns in the direct liquid chromatographic resolution of racemic compounds 511(1990)89

High-performance displacement chromatography-mass spectrometry of tryptic peptides of recombinant human growth hormone 512(1990)299

Binding capacities of hydroxyapatite for globular proteins 515(1990)193

Affinity of trypsin for amidine derivatives immobilized on dextran-coated silica supports 548(1991)255

Tryptamine

Gas chromatography of tryptophan together with other amino acids in hydrochloric acid hydrolysates 520(1990)193

Tryptophan

Adsorption chromatography on cellulose. VI. Further studies on the separation of D- and L-tryptophan on cellulose with aqueous solvents 510(1990)367

Enantiomeric resolution by micellar electrokinetic chromatography with chiral surfactants 515(1990)221

Gas chromatography of tryptophan together with other amino acids in hydrochloric acid hydrolysates 520(1990)193

Determination of tryptophan and its metabolites in human plasma and serum by high-performance liquid chromatography with automated sample clean-up system 526(1990)367

Determination of six indolic compounds, including melatonin, in rat pineal using high-performance liquid chromatography with serial fluorimetric-electrochemical detection 528(1990)111

Solid-phase reagent containing the 3,5-dinitrophenyl tag for the improved derivatization of chiral and achiral amines, amino alcohols and amino acids in high-performance liquid chromatography with ultraviolet detection 537(1991)123

High-performance liquid chromatography of biogenic amines in the corpus cardiacum of the American cockroach, *Periplaneta americana* 539(1991)193

On-line multichannel Raman spectroscopic detection system for capillary zone electrophoresis 540(1991)355

Elimination of the temperature-induced loss of the enantioselectivity of chemically bonded albumin 543(1991)475

Thin-layer chromatographic method for the simultaneous determination of physiological aromatic amino acids 547(1991)531

Tryptophan metabolites

Optimization of conditions for the simultaneous separation of ten tryptophan metabolites using reversed-phase high-performance liquid chromatography 534(1990)13

Determination of neurochemicals in biological fluids by using an automated high-performance liquid chromatographic system with a coulometric array detector 536(1991)229

D-Tubocurarine

Measurement of D-tubocurarine chloride in human urine using solid-phase extraction and reversed-phase high-performance liquid chromatography with ultraviolet detection 526(1990)228

Simple high-performance liquid chromatographic method for the analysis of the non-depolarizing neuromuscular blocking drugs in clinical anaesthesia 533(1990)241

Tubulin

Isolation of mammalian brain tubulin by amino-activated gel chromatography 525(1990)71

Tuftsia

Application of an anhydrotrypsin-immobilized precolumn for selective separation of peptides having arginine or lysine at their C-termini by column-switching high-performance liquid chromatography 543(1991)59

Tyramine

Determination of tyramine in cheese by reversed-phase high-performance liquid chromatography with amperometric detection 504(1990)441

Identification and quantitation of N-acetyl metabolites of biogenic amines in the thoracic nervous system of the locust, *Schistocerca gregaria*, by gas chromatography-negative-ion chemical ionisation mass spectrometry 532(1990)13

High-performance liquid chromatography of biogenic amines in the corpus cardiacum of the American cockroach, *Periplaneta americana* 539(1991)193

Tyrosine

Chiral chloroformates as transparent reagents for the resolution of metoprolol enantiomers by reversed-phase liquid chromatography 506(1990)593

Identification and quantitation of phenylalanine, tyrosine and dihydroxyphenylalanine in the thoracic nervous system of the locust, *Schistocerca gregaria*, by gas chromatography-negative-ion chemical ionisation mass spectrometry 532(1990)1

High-performance liquid chromatography of biogenic amines in the corpus cardiacum of the American cockroach, *Periplaneta americana* 539(1991)193

Chiral recognition mechanisms on chiral stationary phases derived from tyrosine. Specific influence of the nature of the asymmetric centre vicinal functional group 540(1991)129

Thin-layer chromatographic method for the simultaneous determination of physiological aromatic amino acids 547(1991)531

Chiral stationary phases derived from tyrosine (Review) 550(1991)357

Tyrosine derivatives

Chiral thin-layer chromatographic separation of phenylalanine and tyrosine derivatives 504(1990)450

Tyrosine metabolites

Determination of neurochemicals in biological fluids by using an automated high-performance liquid chromatographic system with a coulometric array detector 536(1991)229

Tyrosyl-tRNA synthetase

Purification of mammalian tyrosyl-tRNA synthetase by high-performance liquid chromatography 503(1990)277

U

U1 small nuclear RNA

Enrichment of biologically active U1 small nuclear RNAs by ion-exchange high-performance liquid chromatography 547(1991)462

Umbelliferone

Automated multiple development high-performance thin-layer chromatographic analysis of natural phenolic compounds 511(1990)396

Laser-light-scattering detection for high-speed counter-current chromatography 538(1991)87

Undecane

Renaissance of gas chromatography-time-of-flight mass spectrometry. Meeting the challenge of capillary columns with a beam deflection instrument and time array detection 518(1990)283

Uniconazole

Elution orders in the separation of enantiomers by high-performance liquid chromatography with some chiral stationary phases 535(1990)213

Upstream element factor

Purification of the upstream element factor of the Adenovirus-2 major late promoter from HeLa and yeast by sequence-specific DNA affinity chromatography 510(1990)243

Uracil

Characteristics of C₄- and C₈-bonded vinyl alcohol copolymer gels for reversed-phase high-performance liquid chromatography 515(1990)175

High-performance liquid chromatography on silica dynamically modified with hydrazinium derivatives 521(1990)19

Determination of creatinine-related urinary uracil excretion in children by high-performance liquid chromatography 525(1990)277

Effect of sample viscosity in high-performance size-exclusion chromatography and its control 550(1991)705

Uranium

Preseparation of uranium by reversed-phase partition chromatography. Application to the determination of trace elements in nuclear-grade uranium compounds by inductively coupled plasma atomic emission spectrometry 537(1991)287

Urea

Effect of urea addition in micellar electrokinetic chromatography 545(1991)359

Uremic toxins

Scaling up in isolation of medium-size uraemic toxins 539(1991)449

Uric acid

Simultaneous determination of creatine, uric acid and creatinine by high-performance liquid chromatography with direct serum injection and multi-wavelength detection 525(1990)265

Urocanic acid

Rapid analysis of small molecules in the presence of DNA by high-performance liquid chromatography using internal surface reversed-phase silica 533(1990)195

Urokinase

Purification of urokinase by combined cation exchanger and affinity chromatographic cartridges 525(1990)297

Monosized adsorbents for high-performance affinity chromatography. Application to the purification of calf intestinal alkaline phosphatase and human urine urokinase 540(1991)103

Uronic acids

Studies on the chromatographic behaviour of some uronic acids and neutral sugars on an amino-bonded phase column 513(1990)227

Uroporphyrin

Determination of hydroxy and peroxy acid derivatives of uroporphyrin in the plasma of patients with congenital erythropoietic porphyria by high-performance liquid chromatography 550(1991)603

V**Vaccines**

High-performance size-exclusion chromatography and molar mass measurement by low-angle laser light scattering of recombinant yeast-derived human hepatitis B virus surface antigen vaccine particles 507(1990)25

Valine

Displacement chromatography on cyclodextrin-silicas. III. Enantiomer separations 506(1990)481

Investigation of parameters in the separation of amino acid enantiomers by supercritical fluid chromatography 514(1990)253

Enantiomeric resolution by micellar electrokinetic chromatography with chiral surfactants 515(1990)221

Solid-phase reagent containing the 3,5-dinitrophenyl tag for the improved derivatization of chiral and achiral amines, amino alcohols and amino acids in high-performance liquid chromatography with ultraviolet detection 537(1991)123

Valproic acid

Metabolic profiling of valproic acid in patients using negative-ion chemical ionization gas chromatography-mass spectrometry 527(1990)327

Simultaneous determination of six antiepileptic drugs by capillary gas chromatography 527(1990)428

Vanadium

High-performance liquid chromatographic method for the determination of vanadium in serum 532(1990)445

Simultaneous determination of molybdenum, vanadium, gallium, copper, iron and indium as 8-quinolinolate complexes by high-performance liquid chromatography 539(1991)225

Vanillic acid

Optimization of electrochemical detection in the high-performance liquid chromatography of lignin phenolics from lignocellulosic by-products 507(1990)439

High-performance liquid chromatography of biogenic amines in the corpus cardiacum of the American cockroach, *Periplaneta americana* 539(1991)193

Application of a metal capillary column in gas chromatographic determination of catechol-O-methyltransferase activity 549(1991)434

Vanillin

Optimization of electrochemical detection in the high-performance liquid chromatography of lignin phenolics from lignocellulosic by-products 507(1990)439

Behaviour of phenols under supercritical fluid chromatographic conditions in relation to the pyrolysis of lignocellulosic materials 540(1991)225

Application of a metal capillary column in gas chromatographic determination of catechol-O-methyltransferase activity 549(1991)434

Vanillin analogues

Fluoropolymers and fluorocarbon bonded phases as column packings for liquid chromatography (Review) 544(1991)187

Vanillyl alcohol

Application of a metal capillary column in gas chromatographic determination of catechol-O-methyltransferase activity 549(1991)434

Vasicine

Determination of vasicine and related alkaloids by gas chromatography-mass spectrometry 505(1990)424

Vasodilator-stimulated phosphoprotein

Analysis, purification and properties of a 50 000-dalton membrane-associated phosphoprotein from human platelets 521(1990)335

Vasopressins

High-performance liquid chromatographic determination of an arginine-containing octapeptide antagonist of vasopressin in human plasma by means of a selective post-column reaction with fluorescence detection 507(1990)79

Isocratic high-performance liquid chromatography-photodiode-array detection method for determination of lysine- and arginine-vasopressins and oxytocin in biological samples 536(1991)137

Vecuronium

Simple high-performance liquid chromatographic method for the analysis of the non-depolarizing neuromuscular blocking drugs in clinical anaesthesia 533(1990)241

Vecuronium bromide

Analysis of steroids. XLI. Ion-pair high-performance liquid chromatographic separation of quaternary ammonium steroids on silica 550(1991)639

Verapamil

Effects of the pre-column in automated on-column injection capillary gas chromatography 518(1990)307

Measurement of verapamil in human plasma by reversed-phase high-performance liquid chromatography using a short octyl column 528(1990)480

On-line determination and resolution of verapamil enantiomers by high-performance liquid chromatography with column switching 541(1991)411

Comparison of a new ovomucoid and a second-generation α_1 -acid glycoprotein-based chiral column for the direct high-performance liquid chromatography resolution of drug enantiomers 545(1991)43

Verbenalin

Identification of a new minor iridoid glycoside in *Symplocos glauca* by thermospray liquid chromatography-mass spectrometry 515(1990)503

Vesamicol

Comparison of a new ovomucoid and a second-generation α_1 -acid glycoprotein-based chiral column for the direct high-performance liquid chromatography resolution of drug enantiomers 545(1991)43

Vescalagin

Polyphenols of *Quercus robur* L. II. Preparative isolation by low-pressure and high-pressure liquid chromatography of heartwood ellagitannins 502(1990)107

Vesicants

Chromatographic analysis of chemical warfare agents (Review) 503(1990)293

Viloxazine

Sensitive one-step extraction procedure for high-performance liquid chromatographic determination of viloxazine in human plasma 529(1990)494

Vindesine

Important parameters in liquid chromatography-continuous-flow fast atom bombardment mass spectrometry 511(1990)35

Vindoline

Gas chromatographic-mass spectrometric analysis of major indole alkaloids of *Catharanthus roseus* 505(1990)429

Vinpocetine

New assay method for the determination of vinpocetine in human plasma with gas chromatography-mass spectrometry without transesterification caused by solvents 529(1990)442

Vinriptol

High-performance liquid chromatographic bio-analysis and preliminary pharmacokinetics of the experimental antitumour drug vinriptol 529(1990)329

Vinyl acetate

Modified sorbents in binary stationary phase systems in gas chromatography 508(1990)193

Vinyl alcohol

Characteristics of C₄- and C₈-bonded vinyl alcohol copolymer gels for reversed-phase high-performance liquid chromatography 515(1990)175

Vinyl chloride

Analytical isotachopheresis in biological monitoring of exposure to industrial chemicals (Review) 545(1991)369

Gas chromatographic study of interaction between vinyl chloride and poly(vinyl chloride) 550(1991)171

Multi-step procedure for the separation of vinyl chloride oligomers 550(1991)539

Viruses

Effects of temperature, carrier composition and sample load in asymmetrical flow field-flow fractionation 548(1991)393

Vitamin A

Endogenous levels of β -carotene in human buccal mucosa cells by reversed-phase high-performance liquid chromatography 526(1990)47

Vitamin A compounds

Capillary gas chromatography of retinoids (vitamin A compounds) and apo-retinoids: determination of Kováts retention indices 527(1990)406

Vitamin B₆

High-performance liquid chromatography of two derivatives of vitamin B₆, the carbamoyl derivatives of pyridoxal 5'-phosphate and pyridoxamine 5'-phosphate 547(1991)472

Vitamin B₁₂

Separation and study of corrinoid cobalt-ligand isomers by high-performance liquid chromatography 536(1991)185

High-performance liquid chromatographic analysis of the (cyanoquo) stereoisomers of several putative vitamin B₁₂ precursors 537(1991)235

Determination of vitamin B₁₂ in multivitamin-multimineral tablets by high-performance liquid chromatography after solid-phase extraction 541(1991)383

Vitamin C

Determination of ascorbic acid, dehydroascorbic acid and ascorbic acid-2-phosphate in infiltrated apple and potato tissue by high-performance liquid chromatography 503(1990)431

High-performance liquid chromatographic post-column reaction system for the electrochemical detection of ascorbic acid and dehydroascorbic acid 504(1990)434

Utilization of capillary isotachopheresis in the determination of organic acids in food 509(1990)283

Assay for both ascorbic and dehydroascorbic acid in dairy foods by high-performance liquid chromatography using precolumn derivatization with methoxy- and ethoxy-1,2-phenylenediamine 543(1991)367

The use of pulsed amperometry combined with ion-exclusion chromatography for the simultaneous analysis of ascorbic acid and sulfite 546(1991)119

Vitamin D₂

Identification of vitamin D₂ by thermospray-interface mass spectrometry 543(1991)241

Determination of vitamin D₂ in shiitake mushroom (*Lentinus edodes*) by high-performance liquid chromatography 545(1991)201

Vitamins

Purity control of riboflavin-5'-phosphate (vitamin B₂ phosphate) by capillary zone electrophoresis 508(1990)203

Separation of water- and fat-soluble vitamins by micellar electrokinetic chromatography 547(1991)419

Vitamins, water soluble

Determination of water-soluble vitamins in blood and plasma by coupled-column liquid chromatography 506(1990)471

Volatile compounds, glycosidically bound

Chromatographic separation and partial identification of glycosidically bound volatile components of fruit 522(1990)255

Volatile organic compounds

Comparison of quarter-hourly on-line dynamic headspace analysis to purge-and-trap analysis of varying volatile organic compounds in drinking water sources 513(1990)47

Adsorption/thermal desorption for the determination of volatile organic compounds in water 537(1991)321

Determination of monocyclic aromatic hydrocarbons in plant cuticles by gas chromatography-mass spectrometry 541(1991)83

Analysis of volatile organic compounds in estuarine sediments using dynamic headspace and gas chromatography-mass spectrometry 542(1991)413

Continuous automatic monitoring of volatile organic compounds in aqueous streams by a modified purge-and-trap system 549(1991)335

VX

Determination of O-ethyl S-2-diisopropylaminoethyl methylphosphonothioate (VX) by thermospray liquid chromatography-mass spectrometry 523(1990)151

W**Warfarin**

Determination by high-performance liquid chromatography of the binding properties of charged β -cyclodextrin derivatives with drugs 503(1990)453

Determination of warfarin in drinking water by high-performance liquid chromatography after solid-phase extraction 507(1990)381

Determination of the plasma protein binding of the coumarin anticoagulants phenprocoumon and its metabolites, warfarin and acenocoumarol, by ultrafiltration and high-performance liquid chromatography 529(1990)479

Comparison of a new ovomucoid and a second-generation α_1 -acid glycoprotein-based chiral column for the direct high-performance liquid chromatography resolution of drug enantiomers 545(1991)43

Wax esters

Gas-liquid chromatographic method for the determination of marine wax esters according to the degree of unsaturation 513(1990)327

Whey proteins

Phenotyping of bovine milk proteins by reversed-phase high-performance liquid chromatography 548(1991)361

Wood preservatives

Gas chromatographic determination of polychlorinated dibenzo-*p*-dioxins in wood preservatives 502(1990)160

X

Xanthene dyes

Analysis of xanthene dyes by reversed-phase high-performance liquid chromatography on a polymeric column followed by characterization with a diode array detector 528(1990)155

Xanthine oxidase

Interrelation between nucleotide degradation and aldehyde formation in red blood cells. Influence of xanthine oxidase on metabolism: an application of nucleotide and aldehyde analyses by high-performance liquid chromatography 507(1990)311

Xanthines

Investigation of the reversed-phase high-performance liquid chromatographic ligand-exchange retention mechanism on a triamine stationary phase 513(1990)145

Determination of purine nucleosides and their bases by high-performance liquid chromatography using co-immobilized enzyme reactors 528(1990)91

Plasma and blood assay of xanthine and hypoxanthine by gas chromatography-mass spectrometry: physiological variations in humans 529(1990)93

Measurement of hypoxanthine and xanthine in late-gestation human amniotic fluid by reversed-phase high-performance liquid chromatography with photodiode-array detection 533(1990)73

Characterization of major carotenoids in water convolvulus (*Ipomoea aquatica*) by open-column, thin-layer and high-performance liquid chromatography 543(1991)147

Xenopsin

High-performance liquid chromatographic determination of peptides in biological fluids by automated pre-column fluorescence derivatization with fluorescamine 548(1991)319

Ximoprofen

Determination of ximoprofen and its metabolites in human urine by high-performance liquid chromatography with ultra-violet absorbance detection 530(1990)377

Xipamide

Rapid determination of xipamide in human plasma and urine by high-performance liquid chromatography 533(1990)275

Xylanases

Separation of the cellulolytic and xylanolytic enzymes of *Clostridium stercoarium* 521(1990)301

Xylenes

Retention times and heats of adsorption of aromatic compounds on carbon adsorbents 506(1990)335

Sorption isotherms of organic vapours on Tenax 514(1990)279

Systematic errors with the use of internal standard calibration in gas chromatographic headspace analysis 518(1990)1

Blended liquid crystalline stationary phases in capillary gas chromatography 520(1990)85

Determination of monocyclic aromatic hydrocarbons in plant cuticles by gas chromatography-mass spectrometry 541(1991)83

Analytical isotachopheresis in biological monitoring of exposure to industrial chemicals (Review) 545(1991)369

Xyloses

Selective post-column liquid chromatographic determination of sugars in spent sulphite liquor with two enzymatic electrochemical detectors in parallel 506(1990)423

Determination of xylose oligomers and monosaccharides by anion-exchange chromatography with pulsed amperometric detection 546(1991)289

β -D-Xylosidase

Separation of the cellulolytic and xylanolytic enzymes of *Clostridium stercoarium* 521(1990)301

D-Xylulose

Selective post-column liquid chromatographic determination of sugars in spent sulphite liquor with two enzymatic electrochemical detectors in parallel 506(1990)423

Y

Ytterbium

Charged surface and mass transfer in dynamic ion exchangers 546(1991)17

Yttrium

Separation of lanthanides and yttrium as anionic complexes by isocratic ion-interaction chromatography 537(1991)277

Z

Zaprinast

Two systems for the automated analysis of drugs in biological fluids using high-performance liquid chromatography 527(1990)67

Analysis of Zaprinast in rat and human plasma by automated solid-phase extraction and reversed-phase high-performance liquid chromatography 527(1990)454

Zeatin

Determination of zeatin and zeatin riboside in plant tissue by solid-phase extraction and ion-exchange chromatography 504(1990)197

Zeatin riboside

Determination of zeatin and zeatin riboside in plant tissue by solid-phase extraction and ion-exchange chromatography 504(1990)197

Zeaxanthin

High-performance liquid chromatographic determination of chloroplast pigments with optimized separation of lutein and zeaxanthin 508(1990)232

Resolution of lutein and zeaxanthin using a non-encapped, lightly carbon-loaded C₁₈ high-performance liquid chromatographic column 543(1991)137

Zidovudine

Simultaneous quantification of zidovudine and its metabolites in serum and urine by high-performance liquid chromatography using a column-switching technique 525(1990)240

Analysis of 3'-azido-3'-deoxythymidine levels in tissues and milk by isocratic high-performance liquid chromatography 528(1990)371

Simple and rapid assay for zidovudine and zidovudine glucuronide in plasma using high-performance liquid chromatography 530(1990)474

Zidovudine 5'-O-glucuronide

Simultaneous quantification of zidovudine and its metabolites in serum and urine by high-performance liquid chromatography using a column-switching technique 525(1990)240

Zidovudine glucuronide

Simple and rapid assay for zidovudine and zidovudine glucuronide in plasma using high-performance liquid chromatography 530(1990)474

Zinc

Use of metal chelate affinity chromatography for removal of zinc ions from alkaline phosphatase from *Escherichia coli* 522(1990)171

Preconcentration of divalent trace metals on chelating silicas followed by on-line ion chromatography 541(1991)443

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction 546(1991)251

Zinc pyrithione

High-performance liquid chromatographic determination of zinc pyrithione in antidandruff preparations based on copper chelate formation 502(1990)379

Zirconium (IV)

Thin-layer chromatographic behaviour and separation of zirconium(IV) and hafnium(IV) on silica gel in mineral acid-hydrogen peroxide media 539(1991)169

Zirconium oxide

Titanium and zirconia: possible new ceramic microparticulates for high-performance liquid chromatography 515(1990)149

Porous zirconia and titania as packing materials for high-performance liquid chromatography 535(1990)111

Zonisamide

Determination of zonisamide (3-sulphamoylmethyl-1,2-benzisoxazole) in plasma at

therapeutic concentrations by high-performance liquid chromatography 534(1990)173

Zopiclone

Identification and quantification in plasma of zopiclone by gas chromatography with nitrogen-phosphorus detection 527(1990)169