

Subject Index Vol. 1034

Adsorption

Characterization of the selectivity of a phenytoin imprinted polymer 1034(2004)99

Ion exchange using poorly activated supports, an easy way for purification of large proteins 1034(2004)155

Determination of the adsorption model of alkenes and alcohols on sulfonic copolymer by inverse gas chromatography 1034(2004)169

Alcohol ethoxylates

Separation of derivatized alcohol ethoxylates and propoxylates by low temperature packed column supercritical fluid chromatography using ultraviolet absorbance detection 1034(2004)207

Alcohol propoxylates

Separation of derivatized alcohol ethoxylates and propoxylates by low temperature packed column supercritical fluid chromatography using ultraviolet absorbance detection 1034(2004)207

Alcohols

Capillary microextraction on sol–gel dendrimer coatings 1034(2004)1

Determination of the adsorption model of alkenes and alcohols on sulfonic copolymer by inverse gas chromatography 1034(2004)169

Aldehydes

Capillary microextraction on sol–gel dendrimer coatings 1034(2004)1

Alkenes

Determination of the adsorption model of alkenes and alcohols on sulfonic copolymer by inverse gas chromatography 1034(2004)169

Alkylbenzenes

New insights on the retention mechanism of non-polar solutes in reversed-phase liquid chromatographic columns 1034(2004)41

Amino acids

Sequential ethoxycarbonylation, methoximation and *tert*-butyldimethylsilylation for simultaneous determination of amino acids and carboxylic acids by dual-column gas chromatography 1034(2004)13

Amylose tris-(3,5-dimethylphenylcarbamate)

Comparison study of Chiralpak AD-H with AD columns in chromatographic enantioseparation of dihydropyrimidinone acid and its methyl ester 1034(2004)117

Antibiotics

Multiresidue determination of fluoroquinolones in milk by column liquid chromatography with fluorescence and ultraviolet absorbance detection 1034(2004)25

Benzene

New insights on the retention mechanism of non-polar solutes in reversed-phase liquid chromatographic columns 1034(2004)41

Binding studies

Characterization of the selectivity of a phenytoin imprinted polymer 1034(2004)99

Bisphenol A ethoxylate dimethacrylates

Separation of ethoxylated bisphenol A dimethacrylates in dental composite after derivatisation to ionisable amines by capillary zone electrophoresis 1034(2004)221

Butanedione

Identification of 2,3-butanedione (diacetyl) as the compound causing odor events at trace levels in the Llobregat River and Barcelona's treated water (Spain) 1034(2004)175

tert-Butyldimethylsilylation

Sequential ethoxycarbonylation, methoximation and *tert*-butyldimethylsilylation for simultaneous determination of amino acids and carboxylic acids by dual-column gas chromatography 1034(2004)13

Capillary microextraction

Capillary microextraction on sol–gel dendrimer coatings 1034(2004)1

Carbohydrates

Separation and detection of oxidation products of fluorodeoxyglucose and glucose by high-performance liquid chromatography–electrospray ionisation mass spectrometry 1034(2004)133

Rapid analysis of nucleotide-activated sugars by high-performance liquid chromatography coupled with diode-array detection, electrospray ionization mass spectrometry and nuclear magnetic resonance 1034(2004)139

Carboxylic acids

Sequential ethoxycarbonylation, methoximation and *tert*-butyldimethylsilylation for simultaneous determination of amino acids and carboxylic acids by dual-column gas chromatography 1034(2004)13

Chinese medicines

Application of comprehensive two-dimensional gas chromatography–time-of-flight mass spectrometry in the analysis of volatile oil of traditional Chinese medicines 1034(2004)199

Chiral stationary phases, CE

Enantioseparation of four *cis* and *trans* diastereomers of 2',3'-dideoxy-2',3'-dideoxythymidine analogs, by high-performance liquid chromatography and capillary electrophoresis 1034(2004)161

Chiral stationary phases, LC

Synthesis of chiral stationary phases with radical polymerization reaction of cellulose phenylcarbamate derivatives and vinylized silica gel 1034(2004)109

Comparison study of Chiralpak AD-H with AD columns in chromatographic enantioseparation of dihydropyrimidinone acid and its methyl ester 1034(2004)117

Enantioseparation of four *cis* and *trans* diastereomers of 2',3'-didehydro-2',3'-dideoxythymidine analogs, by high-performance liquid chromatography and capillary electrophoresis 1034(2004)161

Chiralpak AD-H and AD

Comparison study of Chiralpak AD-H with AD columns in chromatographic enantioseparation of dihydropyrimidinone acid and its methyl ester 1034(2004)117

Cleanup methods

Rapid multiresidue extraction method of organochlorinated pesticides from fish feed 1034(2004)33

Coated capillaries

Use of dynamically coated capillaries for the determination of heroin, basic impurities and adulterants with capillary electrophoresis 1034(2004)227

Cortical tissue

Characterisation of different clones of *Picea abies* (L.) Karst using head-space sampling of cortical tissues combined with enantioselective capillary gas chromatography for the separation of chiral and non-chiral monoterpenes 1034(2004)183

Counter-current chromatography

Purification of the precursor for the automated radiosynthesis of [¹⁸F]FCWAY by counter-current chromatography 1034(2004)149

Cyclic van't Hoff plots

Comparison study of Chiralpak AD-H with AD columns in chromatographic enantioseparation of dihydropyrimidinone acid and its methyl ester 1034(2004)117

Cyclodextrins

Enantioseparation of four *cis* and *trans* diastereomers of 2',3'-didehydro-2',3'-dideoxythymidine analogs, by high-performance liquid chromatography and capillary electrophoresis 1034(2004)161

Separation of quaternary ammonium diastereomeric oligomers by capillary electrophoresis 1034(2004)213

Use of dynamically coated capillaries for the determination of heroin, basic impurities and adulterants with capillary electrophoresis 1034(2004)227

Dental composites

Separation of ethoxylated bisphenol A dimethacrylates in dental composite after derivatisation to ionisable amines by capillary zone electrophoresis 1034(2004)221

Derivatization, GC

Sequential ethoxycarbonylation, methoximation and *tert*-butyldimethylsilylation for simultaneous determination of amino acids and carboxylic acids by dual-column gas chromatography 1034(2004)13

Derivatization, LC

Determination of epichlorohydrin by sulfite derivatization and ion chromatography: characterization of the sulfite derivatives by ion chromatography–mass spectrometry 1034(2004)243

Derivatization, SFC

Separation of derivatized alcohol ethoxylates and propoxylates by low temperature packed column supercritical fluid chromatography using ultraviolet absorbance detection 1034(2004)207

Desorption

Measurement and simulation of tailing zones of a cationic dye in analytical-scale reversed phase chromatography 1034(2004)69

Diacetyl

Identification of 2,3-butanedione (diacetyl) as the compound causing odor events at trace levels in the Llobregat River and Barcelona's treated water (Spain) 1034(2004)175

Diastereomeric resolution

Separation of quaternary ammonium diastereomeric oligomers by capillary electrophoresis 1034(2004)213

2',3'-Didehydro-2',3'-dideoxythymidine

Enantioseparation of four *cis* and *trans* diastereomers of 2',3'-didehydro-2',3'-dideoxythymidine analogs, by high-performance liquid chromatography and capillary electrophoresis 1034(2004)161

Dihydropyrimidinone acid

Comparison study of Chiralpak AD-H with AD columns in chromatographic enantioseparation of dihydropyrimidinone acid and its methyl ester 1034(2004)117

DII

Measurement and simulation of tailing zones of a cationic dye in analytical-scale reversed phase chromatography 1034(2004)69

Dyes

Measurement and simulation of tailing zones of a cationic dye in analytical-scale reversed phase chromatography 1034(2004)69

Dynamic capacity

Comparison of chromatographic ion-exchange resins. III. Strong cation-exchange resins 1034(2004)85

Dynamic coating

Use of dynamically coated capillaries for the determination of heroin, basic impurities and adulterants with capillary electrophoresis 1034(2004)227

Enantiomer separation

Comparison study of Chiralpak AD-H with AD columns in chromatographic enantioseparation of dihydropyrimidinone acid and its methyl ester 1034(2004)117

Enantioseparation of four *cis* and *trans* diastereomers of 2',3'-didehydro-2',3'-dideoxythymidine analogs, by high-performance liquid chromatography and capillary electrophoresis 1034(2004)161

Characterisation of different clones of *Picea abies* (L.) Karst using head-space sampling of cortical tissues combined with enantioselective capillary gas chromatography for the separation of chiral and non-chiral monoterpenes 1034(2004)183

Environmental analysis

Identification of 2,3-butanedione (diacetyl) as the compound causing odor events at trace levels in the Llobregat River and Barcelona's treated water (Spain) 1034(2004)175

Epichlorohydrin

Determination of epichlorohydrin by sulfite derivatization and ion chromatography: characterization of the sulfite derivatives by ion chromatography–mass spectrometry 1034(2004)243

Essential oils

Application of comprehensive two-dimensional gas chromatography–time-of-flight mass spectrometry in the analysis of volatile oil of traditional Chinese medicines 1034(2004)199

Ethoxycarbonylation

Sequential ethoxycarbonylation, methoximation and *tert*-butyldimethylsilylation for simultaneous determination of amino acids and carboxylic acids by dual-column gas chromatography 1034(2004)13

Ethoxylates

Separation of ethoxylated bisphenol A dimethacrylates in dental composite after derivatisation to ionisable amines by capillary zone electrophoresis 1034(2004)221

Fat extraction

Ultrasound-assisted Soxhlet extraction: an expeditive approach for solid sample treatment. Application to the extraction of total fat from oleaginous seeds 1034(2004)237

FCWAY

Purification of the precursor for the automated radiosynthesis of [¹⁸F]FCWAY by counter-current chromatography 1034(2004)149

Fish feed

Rapid multiresidue extraction method of organochlorinated pesticides from fish feed 1034(2004)33

Flavors

Identification of 2,3-butanedione (diacetyl) as the compound causing odor events at trace levels in the Llobregat River and Barcelona's treated water (Spain) 1034(2004)175

Fluorodeoxyglucose

Separation and detection of oxidation products of fluorodeoxyglucose and glucose by high-performance liquid chromatography–electrospray ionisation mass spectrometry 1034(2004)133

Fluoroquinolones

Multiresidue determination of fluoroquinolones in milk by column liquid chromatography with fluorescence and ultraviolet absorbance detection 1034(2004)25

Food analysis

Multiresidue determination of fluoroquinolones in milk by column liquid chromatography with fluorescence and ultraviolet absorbance detection 1034(2004)25

Forensic analysis

Use of dynamically coated capillaries for the determination of heroin, basic impurities and adulterants with capillary electrophoresis 1034(2004)227

Gas chromatography, comprehensive two-dimensional

Application of comprehensive two-dimensional gas chromatography–time-of-flight mass spectrometry in the analysis of volatile oil of traditional Chinese medicines 1034(2004)199

Glucose

Separation and detection of oxidation products of fluorodeoxyglucose and glucose by high-performance liquid chromatography–electrospray ionisation mass spectrometry 1034(2004)133

Guanosine diphosphate–mannose

Rapid analysis of nucleotide-activated sugars by high-performance liquid chromatography coupled with diode-array detection, electrospray ionisation mass spectrometry and nuclear magnetic resonance 1034(2004)139

Guanosine diphosphate–rhamnose

Rapid analysis of nucleotide-activated sugars by high-performance liquid chromatography coupled with diode-array detection, electrospray ionisation mass spectrometry and nuclear magnetic resonance 1034(2004)139

Head-space analysis

Characterisation of different clones of *Picea abies* (L.) Karst using head-space sampling of cortical tissues combined with enantioselective capillary gas chromatography for the separation of chiral and non-chiral monoterpenes 1034(2004)183

Heroin

Use of dynamically coated capillaries for the determination of heroin, basic impurities and adulterants with capillary electrophoresis 1034(2004)227

Hyperbranched polyester

Molar mass distribution of a commercial aliphatic hyperbranched polyester based on 2,2-bis(methylol)propionic acid 1034(2004)77

Implant device materials

Characterization of implant device materials using size-exclusion chromatography with mass spectrometry and with triple detection 1034(2004)125

Inverse gas chromatography

Determination of the adsorption model of alkenes and alcohols on sulfonic copolymer by inverse gas chromatography 1034(2004)169

Ion exchangers

Comparison of chromatographic ion-exchange resins. III. Strong cation-exchange resins 1034(2004)85

Ion exchange using poorly activated supports, an easy way for purification of large proteins 1034(2004)155

Ion-exchange equilibrium

Charge regulation in protein ion-exchange chromatography: Development and experimental evaluation of a theory based on hydrogen ion Donnan equilibrium 1034(2004)55

Keto acids

Sequential ethoxycarbonylation, methoximation and *tert*-butyldimethylsilylation for simultaneous determination of amino acids and carboxylic acids by dual-column gas chromatography 1034(2004)13

Ketones

Capillary microextraction on sol–gel dendrimer coatings 1034(2004)1

Lead

Multielemental speciation analysis of organometallic compounds of mercury, lead and tin in natural water samples by headspace-solid phase microextraction followed by gas chromatography–mass spectrometry 1034(2004)191

Light scattering

Molar mass distribution of a commercial aliphatic hyperbranched polyester based on 2,2-bis(methylol)propionic acid 1034(2004)77

Limonene

Characterisation of different clones of *Picea abies* (L.) Karst using head-space sampling of cortical tissues combined with enantioselective capillary gas chromatography for the separation of chiral and non-chiral monoterpenes 1034(2004)183

Mass spectrometry

Characterization of implant device materials using size-exclusion chromatography with mass spectrometry and with triple detection 1034(2004)125

Mathematical modeling

Determination of the adsorption model of alkenes and alcohols on sulfonic copolymer by inverse gas chromatography 1034(2004)169

Mercury

Multielemental speciation analysis of organometallic compounds of mercury, lead and tin in natural water samples by headspace-solid phase microextraction followed by gas chromatography–mass spectrometry 1034(2004)191

Methacryloyl chloride

Synthesis of chiral stationary phases with radical polymerization reaction of cellulose phenylcarbamate derivatives and vinylized silica gel 1034(2004)109

Methoximation

Sequential ethoxycarbonylation, methoximation and *tert*-butyldimethylsilylation for simultaneous determination of amino acids and carboxylic acids by dual-column gas chromatography 1034(2004)13

Methoxyphenyl piperazino-pyridinyl fluorocyclohexanecarboxamide

Purification of the precursor for the automated radiosynthesis of [¹⁸F]FCWAY by counter-current chromatography 1034(2004)149

Milk

Multiresidue determination of fluoroquinolones in milk by column liquid chromatography with fluorescence and ultraviolet absorbance detection 1034(2004)25

Mobile phase composition

New insights on the retention mechanism of non-polar solutes in reversed-phase liquid chromatographic columns 1034(2004)41

Molar mass averages

Molar mass distribution of a commercial aliphatic hyperbranched polyester based on 2,2-bis(methylol)propionic acid 1034(2004)77

Molar mass distribution

Molar mass distribution of a commercial aliphatic hyperbranched polyester based on 2,2-bis(methylol)propionic acid 1034(2004)77

Characterization of implant device materials using size-exclusion chromatography with mass spectrometry and with triple detection 1034(2004)125

Molecularly imprinting

Characterization of the selectivity of a phenytoin imprinted polymer 1034(2004)99

Monoterpenes

Characterisation of different clones of *Picea abies* (L.) Karst using headspace sampling of cortical tissues combined with enantioselective capillary gas chromatography for the separation of chiral and non-chiral monoterpenes 1034(2004)183

Multiresidue extraction

Rapid multiresidue extraction method of organochlorinated pesticides from fish feed 1034(2004)33

Nuclear magnetic resonance spectrometry

Rapid analysis of nucleotide-activated sugars by high-performance liquid chromatography coupled with diode-array detection, electrospray ionization mass spectrometry and nuclear magnetic resonance 1034(2004)139

Nucleosides

Enantioseparation of four *cis* and *trans* diastereomers of 2',3'-dideoxy-2',3'-dideoxythymidine analogs, by high-performance liquid chromatography and capillary electrophoresis 1034(2004)161

Nucleotide sugars

Rapid analysis of nucleotide-activated sugars by high-performance liquid chromatography coupled with diode-array detection, electrospray ionization mass spectrometry and nuclear magnetic resonance 1034(2004)139

Odor concentration

Identification of 2,3-butanedione (diacetyl) as the compound causing odor events at trace levels in the Llobregat River and Barcelona's treated water (Spain) 1034(2004)175

Oleaginous seeds

Ultrasound-assisted Soxhlet extraction: an expeditive approach for solid sample treatment. Application to the extraction of total fat from oleaginous seeds 1034(2004)237

Olfactometry

Identification of 2,3-butanedione (diacetyl) as the compound causing odor events at trace levels in the Llobregat River and Barcelona's treated water (Spain) 1034(2004)175

Organochlorine compounds

Rapid multiresidue extraction method of organochlorinated pesticides from fish feed 1034(2004)33

Organofluorine compounds

Separation and detection of oxidation products of fluorodeoxyglucose and glucose by high-performance liquid chromatography–electrospray ionization mass spectrometry 1034(2004)133

Organometallic compounds

Multielemental speciation analysis of organometallic compounds of mercury, lead and tin in natural water samples by headspace-solid phase microextraction followed by gas chromatography–mass spectrometry 1034(2004)191

Pesticides

Rapid multiresidue extraction method of organochlorinated pesticides from fish feed 1034(2004)33

Phenols

Capillary microextraction on sol–gel dendrimer coatings 1034(2004)1

Phenytoin

Characterization of the selectivity of a phenytoin imprinted polymer 1034(2004)99

***Picea abies* (L.) Karst**

Characterisation of different clones of *Picea abies* (L.) Karst using headspace sampling of cortical tissues combined with enantioselective capillary gas chromatography for the separation of chiral and non-chiral monoterpenes 1034(2004)183

Pinene

Characterisation of different clones of *Picea abies* (L.) Karst using headspace sampling of cortical tissues combined with enantioselective capillary gas chromatography for the separation of chiral and non-chiral monoterpenes 1034(2004)183

Pogostemon cablin Benth

Application of comprehensive two-dimensional gas chromatography–time-of-flight mass spectrometry in the analysis of volatile oil of traditional Chinese medicines 1034(2004)199

Poly(dimethyl)siloxane

Characterization of implant device materials using size-exclusion chromatography with mass spectrometry and with triple detection 1034(2004)125

Polymers

Characterization of implant device materials using size-exclusion chromatography with mass spectrometry and with triple detection 1034(2004)125

Polynuclear aromatic hydrocarbons

Capillary microextraction on sol–gel dendrimer coatings 1034(2004)1

Preparative chromatography

Purification of the precursor for the automated radiosynthesis of [¹⁸F]FCWAY by counter-current chromatography 1034(2004)149

Proteins

Charge regulation in protein ion-exchange chromatography: Development and experimental evaluation of a theory based on hydrogen ion Donnan equilibrium 1034(2004)55

Comparison of chromatographic ion-exchange resins. III. Strong cation-exchange resins 1034(2004)85

Ion exchange using poorly activated supports, an easy way for purification of large proteins 1034(2004)155

Quaternary ammonium oligomers

Separation of quaternary ammonium diastereomeric oligomers by capillary electrophoresis 1034(2004)213

Radical polymerization

Synthesis of chiral stationary phases with radical polymerization reaction of cellulose phenylcarbamate derivatives and vinylized silica gel 1034(2004)109

Retention index matching

Sequential ethoxycarbonylation, methoximation and *tert*-butyldimethylsilylation for simultaneous determination of amino acids and carboxylic acids by dual-column gas chromatography 1034(2004)13

Retention mechanisms

New insights on the retention mechanism of non-polar solutes in reversed-phase liquid chromatographic columns 1034(2004)41

Sabinene

Characterisation of different clones of *Picea abies* (L.) Karst using headspace sampling of cortical tissues combined with enantioselective capillary gas chromatography for the separation of chiral and non-chiral monoterpenes 1034(2004)183

Selectivity

Characterization of the selectivity of a phenytoin imprinted polymer 1034(2004)99

Silanols

Measurement and simulation of tailing zones of a cationic dye in analytical-scale reversed phase chromatography 1034(2004)69

Simulation

Measurement and simulation of tailing zones of a cationic dye in analytical-scale reversed phase chromatography 1034(2004)69

Sol–gel

Capillary microextraction on sol–gel dendrimer coatings 1034(2004)1

Sol–gel dendrimer coating

Capillary microextraction on sol–gel dendrimer coatings 1034(2004)1

Solid-phase extraction

Multiresidue determination of fluoroquinolones in milk by column liquid chromatography with fluorescence and ultraviolet absorbance detection 1034(2004)25

Solid-phase microextraction

Capillary microextraction on sol–gel dendrimer coatings 1034(2004)1

Multielemental speciation analysis of organometallic compounds of mercury, lead and tin in natural water samples by headspace-solid phase microextraction followed by gas chromatography–mass spectrometry 1034(2004)191

Soxhlet extraction

Ultrasound-assisted Soxhlet extraction: an expeditive approach for solid sample treatment. Application to the extraction of total fat from oleaginous seeds 1034(2004)237

Speciation analysis

Multielemental speciation analysis of organometallic compounds of mercury, lead and tin in natural water samples by headspace-solid phase microextraction followed by gas chromatography–mass spectrometry 1034(2004)191

Static capacity

Comparison of chromatographic ion-exchange resins. III. Strong cation-exchange resins 1034(2004)85

Stationary phases, LC

Comparison of chromatographic ion-exchange resins. III. Strong cation-exchange resins 1034(2004)85

Characterization of the selectivity of a phenytoin imprinted polymer 1034(2004)99

Ion exchange using poorly activated supports, an easy way for purification of large proteins 1034(2004)155

Step-temperature programs

Comparison study of Chiralpak AD-H with AD columns in chromatographic enantioseparation of dihydropyrimidinone acid and its methyl ester 1034(2004)117

Stoichiometric displacement model

Charge regulation in protein ion-exchange chromatography: Development and experimental evaluation of a theory based on hydrogen ion Donnan equilibrium 1034(2004)55

Sulfite

Determination of epichlorohydrin by sulfite derivatization and ion chromatography: characterization of the sulfite derivatives by ion chromatography–mass spectrometry 1034(2004)243

Surfactants

Separation of derivatized alcohol ethoxylates and propoxylates by low temperature packed column supercritical fluid chromatography using ultraviolet absorbance detection 1034(2004)207

Tailing

Measurement and simulation of tailing zones of a cationic dye in analytical-scale reversed phase chromatography 1034(2004)69

Tin

Multielemental speciation analysis of organometallic compounds of mercury, lead and tin in natural water samples by headspace-solid phase microextraction followed by gas chromatography–mass spectrometry 1034(2004)191

Toluene

New insights on the retention mechanism of non-polar solutes in reversed-phase liquid chromatographic columns 1034(2004)41

 γ -(Trimethoxysilyl)propyl methacrylate

Synthesis of chiral stationary phases with radical polymerization reaction of cellulose phenylcarbamate derivatives and vinylized silica gel 1034(2004)109

Triple detection

Characterization of implant device materials using size-exclusion chromatography with mass spectrometry and with triple detection 1034(2004)125

Ultrasound-assisted extraction

Ultrasound-assisted Soxhlet extraction: an expeditive approach for solid sample treatment. Application to the extraction of total fat from oleaginous seeds 1034(2004)237

Water analysis

Identification of 2,3-butanedione (diacetyl) as the compound causing odor events at trace levels in the Llobregat River and Barcelona's treated water (Spain) 1034(2004)175

Multielemental speciation analysis of organometallic compounds of mercury, lead and tin in natural water samples by headspace-solid phase microextraction followed by gas chromatography–mass spectrometry 1034(2004)191