



SUBJECT INDEX

- Accuracy profile 829
Acetaminophen 487
Acetaminophen glucuronide 487
Acetaminophen sulfate 487
Acetonitrile 71
Acetyl-salicylic acid 1067
 α_1 -Acid glycoprotein 375
Acidic solution 409
Adsorptive stripping voltammetry 957
Albendazole 337
Alkyl-diol silica (ADS) columns 839
Allopurinol 225
Ambroxol 209, 887
4-Aminophenol 1081
Amlodipine 345
Amphiphilic micelles 983
Analysis 737, 1175
Analysis of nicotine gum 441
Analytical method validation 189
Angiotensin II receptor antagonists 847
Animal 523
Anion-exchange chromatography 451
Anodic polarography 353
Anthranilic acid 287
Antibiotics 59, 937, 1219
Antibody 523
Antihypertensive molecule 217
Antimalarial 141
Antioxidant capacity 725
Antisense oligonucleotides 581
APCI 657
Aqueous–organic mobile phase 609
Aspirin 1073, 1145
Assay 451
Automated sample preparation 469
Automation 107
Azithromycin 197
Basic fibroblast growth factor 823
Beer's Law deviation 401
Benoxinate 189
Beta-trace protein 1099
Bilirubin 707
Bilobalide 633
Bioanalysis 753
Biosensor 697
Biotransformation 641
 β -Blocker sensors 175
Bovine 311
Breast milk 1061
Brostalicin 601
Buccal tablet 381
Bulaquine 141
Bulk analysis 441
Buprenorphine 619
Byproduct 461
Caffeine 393
Calcium 217
Candida rugosa lipases 715
Capillary electrophoresis 41, 59, 823, 937, 949
Capillary gas chromatography–mass spectrometry 569
Capsules 433
 β -carboline and harmane alkaloids 991
Carboxylic groups 505
CE 813
Cefadroxil 257
Cefetamet 957
Cefotaxime 257
Cefuroxime axetil 1181
Cetylpyridinium chloride 381
Characterization 361
Characterization and synthesis 29
Chemically modified electrode 505
Chemical stability 97
Chemiluminescence 555
Chemometric methods 539

- Chemometrics 277
 Chiral assay 21
 Chiral separation 1159
 Chitin 1149
 Chitosan 1149
 Chromatography 1199
 Ciclopirox 353
 Cimetidine 1003
 Circular dichroism 905
 Classical herbal extracts 1045
 Clavulanic acid 59
 Cleaning validation 345
 Clenbuterol 311, 887
 Clinical pharmacokinetics 1213
 Codeine–glutethimide interaction 867
 Codeine metabolism 867
 Column ageing 233
 Column liquid chromatography 1159
 Column switching 839
 Complete NMR analysis 641
 Continuous-flow stirred tank reactor (CSTR) 393
 Control 311
 Copper (II) 1003
 Coumarin 813
 Cream 563
 Creatine 125
 Creatinine 125, 1099
 Cyclic voltammetry 967, 1227
 Cyclodextrin complexes 991
 Cyclodextrins 41
 Cyproterone acetate 539
 Cystatin C 1099
 CZE 1037
 Dalfopristin 1167
 Danazol 433
 DDQ 1135
 Degradation 85, 151, 1067
 Degradation products 921, 1087
 Derivative spectrophotometry 257, 983, 1123
 Descarboethoxy-loratadine 609
 Detected bandwidth 401
 Determination 381, 393, 725, 967, 1213, 1227
 Determination of chromium 425
 Dextrose 451
 Diastereomers 663, 679
 Diclofenac 151
 Diethylstilbestrol 1227
 Differential pulse voltammetry 197, 1227
 Differential scanning calorimetry 1067
 Digoxin 1189
 Diphenytriazol 369
 Dipyrone 1011
 Direct voltammetry 1093
 Disaccharides 823
 Disinfectant solutions 737
 Dissolution 441
 Dissolution test 159
 DL111-IT 369
 DNA 1199
 DNA array 687
 2D NMR 531
 Domperidone 209
 1D proton and fluorine NMR 531
 Drug discovery 531
 Drug formulation 1067
 Drug metabolism 531
 Drug–protein interaction 505
 Drugs 151, 569, 707
 Drugs interaction 1235
 Duplicate analysis results 767
E. coli inclusion bodies 1199
 Electrochemical detection 975
 Electrochemical determination 269
 Electrochemical oxidation 197, 337
 Electrochemical quartz crystal microbalance 967
 Electrochemical sensors 251
 Electrooxidation 1227
 Electrophoretic mobility 203
 ELISA 523
 Emulsions with proteins 97
 Enantiomeric resolution 1055
 Enantiomeric separation 21
 Enantiomer migration order 41
 Enantiomer separation 41
 Enantioselective hydrolysis 715
 Endocrine disrupting compound 469
 Endotoxin 495
 Enzymatic activity 97
 Enzyme electrode 737
 Enzyme inhibition assay 107
erythro-Mefloquine 41
 Estradiol valerate 539
 ET AAS 425
 Exametazime (HM-PAO) 1159
 Experimental design 159
 Extended-release dosage form 159
 Extended release formulations 441
 Extinction coefficient 401

- Ex vivo bile pH 513
Ex vivo plasma pH 513
Ex vivo urine pH 513
- Fast analysis 233
Ferricyanide 555
FIA 975
- First-order derivative UV spectrophotometry 1019
Flame atomic absorption spectrometry 51
Flavonoids 1045
Flecainide 375
Flos campsis 479
Flow analysis 1011
Flow injection 1003
Flow injection analysis 555
Fluorescence detection 323, 829
Fluorescence spectroscopic techniques 991
Fluorimetric determination 1219
¹⁹F NMR spectroscopy 133
Folic acid 983
Folium photiniae 479
Formaldehyde 1
Formulations 71
F-test 21
- Gas chromatography-mass spectrometric detection 879
Gas chromatography–mass spectrometry 311
Ginkgolide B 633
Glomerular filtration rate 1099
GLP 1113
Glycine conjugation 133
- HAHA 523
Hair 311
HCP 1199
H-donating activity 1045
Heavy metal detection 251
Heparan sulfate 823
Heparin 823
Herbal drugs 251
Herpes simplex virus 697
High performance liquid chromatography 983
HMG-CoA reductase inhibitors 107
Host cell impurities 1199
HPLC 125, 167, 323, 345, 387, 669, 867, 887, 1061, 1073, 1105, 1135, 1213, 1235
HPLC-fluorimetric 847
HPLC method 441
HPLC method with amperometric detection, deter-
- mination 1081
HPLC-MS 189
HPLC of phospholipids 859
HPLC, Tormentic acid 1175
HPLC with ultraviolet, fluorescence, APCI-MS and ESI-MS detection 641
Human 523
Human plasma 323, 591, 601, 609, 879
Human serum albumin 217, 707
Hydro- and lipo-soluble vitamins 767
Hydrocortisone acetate 921
Hydrolysis 563, 1073
Hydromorphone hydrochloride 913
Hydroperoxide 737
3-hydroxyanthranilic acid 287
Hydroxychloroquine 269
Hydroxyl radicals 151
5-Hydroxymethylfurfural 451
Hypercholesterolemia 107
- IAsys 697, 707
ICP-MS 425
Identification 29, 361
Identification and characterisation 461
Illumination 929
Immediate release formulations 441
Immobilized lipase 715
Immunogenicity 523
Impurities 29, 461, 1019
Impurity 361
Impurity clearance 1199
Indirect UV detection 949
In-process control 167
Insulin 295
Integral antioxidative capacity 1045
Intermolecular interactions 1019
Intravenous injection solutions 469
In-tube solid-phase microextraction 469
In vitro and in vivo samples 531
Ion-exchange chromatography 451
Ion exchange resins 1199
IR 991
IR, ¹H NMR, degree of deacetylation 1149
Iron 51
Isocratic elution 1087
Isosorbide 1145
Isothiocyanates 967
- Ketoconazole 1
Ketoprofen 159

- Ketoprofen lysine salt 1235
 Kinetic and thermodynamic parameters 1181
 Kinetic-chromogenic assay 495
 Kynurenines 287

 β -Lactamase inhibitor 59
 LAL test 495
 Lamiaceae 1175
 Langmuir isotherms 549
 LC/APCI-ITMS 633
 LC-MS 657
 LC-MS 581, 591
 LC/MS 85
 LC-MS/MS 1167
 LC-MS/MS 619
 LC/MS/MS 609
 LC-MS-MS 601
 LC-MS/MS 337
 LC/MS/MS 317
 Ligand-exchange chromatography 1159
Ligustrum lucidum Ait 479
 Limit of detection 21
 Limit of quantification 21
 Linezolid 21
 Liquid chromatography 209, 921
 Liquid chromatography-mass spectrometry 1113
 Liquid chromatography–mass spectrometry 329
 Liquid chromatography-Mass spectrometry 361
 Liquid–liquid back-extraction 1061
 Loratadine 29, 609
 Luminometry 1045
 Lysophosphatidylcholine 859

 Magnesium cation 549
 Mathematical model 203
 Measurement uncertainty 767
 Meclozine 277
 Medicinal plant 51
 Meloxicam 839, 1135
 Mercapturate formation 133
 Metabolism 133
 Metabolites 337, 641
 Metabolite structure determination 531
 Methimazole 181
 Method development 233
 Method robustness 401
 Method transfer 233, 401
 Method validation 1, 495, 753
 Methotrexate 409
 6-Methoxy-2-naphthylacetic acid 641

 Methylene blue 1135
 Methylparaben 921
 Metoclopramide 277
 Micellar and conventional LC 433
 Micellar electrokinetic capillary chromatography (MECC) 479
 Microdialysis 287, 505
 Microelectrodes 687
 β 2-Microglobulin 1099
 Microsomal incubations 813
 Midazolam 167
 Mixture analysis 531
 Molecular recognition 697
 Monolithic columns 233
 Morphine hydrochloride 913
 Mosapride 361
 MRM 657
 MS 581
 99m Tc-d,l-HMPAO 679
 99m Tc-ECD 669
 99m Tc-exametazime 679
 99m Tc-MAG3 669
 99m Tc-meso-HMPAO 679
 99m Tc-Sestamibi 669
 Mucolytic drugs 887
 Multiple reaction monitoring (MRM) 209
 Multi-pumping flow system 1011
 Multi-wall carbon nanotubes 505

 Nabumetone 323, 641
 Naproxen 1087
 Narrow-bore columns 913
 Nicotine 441
 Nifedipine 1213
 Nisoldipine 929
 Nitrendipine 387
 NMR 991
 Norbuprenorphine 619
 NSAID 323
 NSAIDs 641

 8OHdG 657
 Oleanolic acid 479, 1175
 Oligonucleotide-peptide conjugates 581
 Oligosaccharides 823
 Omeprazole 1019
 On-line 295
 On-line SPE 601
 Opioids 329
 Optical biosensor 707

- Optically active compounds 905
Oscillating chemical reaction 393
Oxidation 151
- Paclitaxel 591
Paddle apparatus 159
Pantoprazole sodium 1019
Paracetamol 1081
p-dimethylaminobenzaldehyde 1011
Pentanol 71
Perilla frutescens 1175
Pharmaceutical analysis 59, 175, 197, 913, 1105, 1235
Pharmaceutical formulations 1081, 1219
Pharmaceutical preparation 539
Pharmaceutical preparations 353, 425, 1011
Pharmaceuticals 225, 921, 1003
Pharmacokinetic 1189
Pharmacokinetics 141, 323, 387, 619, 633, 641
Pharmacologically active compounds 905
pH dependent degradation 513
Phenazopyridine 181
Phenylpropanolamine 203
Phloroglucinol 549
pH-mediated stacking 813
Phosphatidylcholine 859
Phosphatidylethanolamine 859
Phosphatidylinositol 859
Phospholipid complex 633
Photochemical degradation 929
Photodiode array detection 369
pH-sensitive 1149
pH stabilization 513
Phthalates 469
Physical stability 97
Piroxicam 151
Plackett-Burman design 1
Plaquenil 269
Plasma 141, 295, 329, 829, 839
Polypyrrole 687
Porous graphitic carbon 1087
Portable instrumentation 251
Potentiometric detection 887
Potentiometry 175
Precision 495
Preclinical study formulations 1113
Preparative chiral HPLC 21
Primaquine 141
Propranolol 181
Propylparaben 921
- Prospekt 2TM 601
Prostaglandin D synthase 1099
Protein binding 697, 707
Protein purification 1199
Pulsed amperometric detection 451
Pulsed electrochemical detection 125
Pyridoxine 277
- Quality control 1037
Quantitative analysis 569
Quartz crystal microbalance 687
Quetiapine 1037
Quinupristin 1167
- Rabbit 141
Rabbit plasma and urine 487
Radio-LC-MS 679
Radio-LC-MS 663, 669
Radiopharmaceutical 669
Rat brain 287
Ratio spectra derivative spectrophotometry 539
Ratio spectra measurements 1123
Rats 1189
Reactive metabolites 133
Receptors 697
Reducing power 1045
Refractive index 451
Related impurities 369
Repaglinide 461
Residues in animal tissues 937
Restricted access material 829
Retina 311
Retinoic acid 563
Retinoyl β-glucuronide 563
Reversed-phase chromatography 905
Reversed phase chromatography 189
Reversed-phase chromatography 141
Reversed phase column 913
Reversed-phase high performance liquid chromatography 767
Reversed phase high-performance liquid chromatography 369
Reversed-phase HPLC 679
Reversed phase HPLC 277, 663
Reversed-phase HPLC with UV detection 487
Reversed phase liquid chromatography 839
Reversed-phase liquid chromatography 71
Rheology 97
Rhodamine 6G 555
Robustness of separation 233

- Robustness test 1
 Robustness testing 913
 Room temperature phosphorescence 225
 RP-HPLC 151
- Salmeterol 203
 Sample preparation 829
 Second derivative of the ratio spectra 277
 Selenitetriglycerides 1029
 Selenitetriglycerides analysis 1029
 Selenium 1029
 Selol 1029
 Semi-automated liquid–liquid extraction 591
 L-(–)-Serine 1055
 Short column HPLC 1
 Sildenafil 317
 Silica column 609
 Silicon chip 687
 Simultaneous estimation 1145
 Simvastatin 107
 Sodium dodecylsulfate 71
Solidago canadensis L. 1045
 Solid phase extraction 619, 983
 Solid-phase extraction (SPE) 387
 Solubility 181
 Sotalol 829
 SPE 867
 Speciation analysis 51
 Spectral interferences 425
 Spectrofluorimetric determination 409
 Spectrophotometric 1003
 Spectrophotometry 1011, 1037
 Spectroscopy 29, 361, 461
 SPE-LC 295
 Squalamine 85
 Square-wave voltammetry 975
 Stability 189
 Stability-indicating assay 189
 Stability-indicating method 1135
 Stability in the solid phase 1181
 Stability studies 1113
 Stability testing 1067
 Stable isotope labelled internal standards 1113
 Statistics 753
 Stir bar sorptive extraction 569
 Sufentanil 329
 Sulforaphane 967
 Sumatriptan succinate 1123
 Supercritical 181
 Superoxide dismutase 97
- Superoxide dismutase biosensor 725
 Surface plasmon resonance imaging 687
 Swabbing recovery 345
 Synercid® 1167
 Synthesis 361
- Tablets 1037
 Tailing factor 1105
 Tandem mass spectrometry 209
 Tea 725
 Technetium-99m-oxo 663
 Telmisartan 847
 Terbium, Tb + 1219
 Terbutaline sulfate 555
 Ternary complex 1219
 Tetracaine hydrochloride 381
 Therapeutic drug monitoring 375
 Thermal desorption 569
 Thermodynamic 217
 Thin layer chromatography 1055
 Ticarcillin 59
 Ticlopidine 879
 TLC-densitometry 1123
 Trace elements 425
 Tramadol 975, 1061
 Transition 217
 Tricyclic antidepressants 71
 Tropanes 663
 Tungstophosphate 175
- UK-103,320 317
 Unbound fraction 375
 Urine 225, 569, 657, 847, 1003
 Urine determination 957
 Ursodeoxycholic acid 949
 Ursolic acid 479, 1175
 UV spectrophotometry 967
 UV-VIS spectrophotometry 1093
- Validation 159, 433
 Variable-parameter kinetics 1073
 Variable-pH kinetics 1073
 Variable-temperature kinetics 1073
 Voltammetric behavior 269
 Voltammetry 353
 Volterra equation 1093
- Warfarin 707
- Zero-crossing method 1019
 Zn(II) complexes 967