

LIST OF CONTENTS

Number 1

Validation of a highly sensitive ICP-MS method for the determination of platinum in biofluids: application to clinical pharmacokinetic studies with oxaliplatin J.G. Morrison, P. White, S. McDougall, J.W. Firth, S.G. Woolfrey (Alnwick, UK), M.A. Graham (Malvern, PA, USA), D. Greenslade (Alnwick, UK)	1
Determination of mirtazapine in tablets by UV spectrophotometric and derivative spectrophotometric methods N. Karaşen, S. Altinöz (Ankara, Turkey)	11
Kinetic study of the indomethacin synthesis and thermal decomposition reactions M. Rusu, M. Olea, D. Rusu (Cluj-Napoca, Romania)	19
Simultaneous estimation of phenylpropanolamine HCl, guaiphenesin and diphenylpyraline HCl in syrups by LC M. Vasudevan, S. Ravisankar, A. Sathiyarayanan, R.S. Chandan (Tamilnadu, India)	25
Extractive spectrophotometric methods for determination of diltiazem HCl in pharmaceutical formulations using bromothymol blue, bromophenol blue and bromocresol green N. Rahman, S.N. Hejaz Azmi (Aligarh, India)	33
A quantitative and qualitative high performance liquid chromatographic determination of acetaminophen and five of its <i>para</i> -substituted derivatives L.A. Shervington, N. Sakhnini (Amman, Jordan)	43
Strategies for the improvement of an amperometric cholesterol biosensor based on electropolymerization in flow systems: use of charge-transfer mediators and platinization of the electrode J.C. Vidal, E. Garcia-Ruiz, J.R. Castillo (Zaragoza, Spain)	51
A colorimetric field method to assess the authenticity of drugs sold as the antimalarial artesunate M.D. Green, D.L. Mount, R.A. Wirtz (Atlanta, GA, USA), N.J. White (Bangkok, Thailand)	65
Identification of photodegradation products of nilvadipine using GC-MS J. Mielcarek, M. Stobiecki, R. Frański (Poznań, Poland)	71
Solid-state studies on the hemihydrate and the anhydrous forms of flunisolide M. Bartolomei (Rome, Italy)	81
Comparison of antibody binding to immobilized group specific affinity ligands in high performance monolith affinity chromatography L.G. Berruex, R. Freitag (Lausanne, Switzerland), T.B. Tennikova (St. Petersburg, Russia)	95
A sensitive method for the measurement of the novel pet endectocide, selamectin (UK-124,114), in dog and cat plasma by chemical derivatisation and high-performance liquid chromatography with fluorescence detection D.K. Walker, K.S. Fenner (Kent, UK)	105
HPTLC screening assay for urinary cotinine as biomarker of environmental tobacco smoke exposure among male adolescents G. Bazylak, H. Brózik, W. Sabanty (Lodz, Poland)	113
Inosine and 2'-deoxyinosine and their synthetic analogues: lipophilicity in the relation to their retention in reversed-phase liquid chromatography and the stability characteristics L. Novotny, M. Abdel-Hamid, H. Hamza (Safat, Kuwait)	125
The uterotonic activity of compounds isolated from the supercritical fluid extract of <i>Ekebergia capensis</i> V. Sewram, M.W. Raynor, D.A. Mulholland (Durban, South Africa), D.M. Raidoo (Congella, South Africa)	133
LC-MS for the identification of oxygen heterocyclic compounds in citrus essential oils P. Dugo, L. Mondello, L. Dugo, R. Stancanelli, G. Dugo (Messina, Italy)	147
LC analysis of benzophenone-3: II application to determination of 'in vitro' and 'in vivo' skin penetration from solvents, coarse and submicron emulsions C. Fernandez (Merida, Venezuela), G. Marti-Mestres, J. Ramos, H. Maillols (Montpellier, France)	155

Number 2

2-Nitrobenzaldehyde: a convenient UV-A and UV-B chemical actinometer for drug photostability testing J.M. Allen, S.K. Allen (Terre Haute, IN, USA), S.W. Baertschi (Indianapolis, IN, USA)	167
AAS and spectrophotometric determination of propranolol HCl and metoprolol tartrate M.A. El-Ries, F.M. Abou Attia, S.A. Ibrahim (Cairo, Egypt)	179
Optimization of enantiomeric separation for quantitative determination of the chiral drug propranolol by ¹ H-NMR spectroscopy utilizing a chiral solvating agent G.M. Hanna (Jamaica, NY, USA), F.E. Evans (Jefferson, AR, USA).	189
A validation study comparing accelerator MS and liquid scintillation counting for analysis of ¹⁴ C-labelled drugs in plasma, urine and faecal extracts R.C. Garner, J. Barker, C. Flavell, J.V. Garner, M. Whattam (York, UK), G.C. Young (Ware, UK), N. Cussans, S. Jezequel (Sandwich, UK), D. Leong (York, UK).	197
Voltammetric analysis of certain 4-quinolones in pharmaceuticals and biological fluids M. Rizk, F. Belal, F. Ibrahim, S. Ahmed, N.M. EL-Enany (Mansoura, Egypt)	211
Liquid chromatographic analysis of streptomycin sulfate E. Adams, M. Rafiee, E. Roets, J. Hoogmartens (Leuven, Belgium).	219
Optimal sample preparation conditions for the determination of uranium in biological samples by kinetic phosphorescence analysis (KPA) J.W. Ejnik, M.M. Hamilton, P.R. Adams, A.J. Carmichael (Bethesda, MD, USA)	227
Determination of pibutidine metabolites in human plasma by LC-MS/MS K. Kato, S. Jingu, N. Ogawa, S. Higuchi (Saitama, Japan).	237
Method development and validation for the HPLC potency assay of troglitazone tablets J. Lambropoulos (Chapel Hill, NC, USA), A.B. Bergholdt (Maaloev, Denmark)	251
Simultaneous spectrophotometric determination of phenobarbital, phenytoin and methylphenobarbital in pharmaceutical preparations by using partial least-squares and principal component regression multivariate calibration M.S. Boeris, J.M. Luco, R.A. Olsina (San Luis, Argentina).	259
Microdialysis sampling of the isothiazolone, PD-161374, and its thiol and disulfide metabolites M. Ye (Lawrence, KS, USA), D.T. Rossi (Ann Arbor, MI, USA), C.E. Lunte (Lawrence, KS, USA)	273
Quantitation of basic fibroblast growth factor by immunoassay using BIAcore™ 2000 G. Zhu, B. Yang, R.N. Jennings (Sunnyvale, CA, USA)	281
High-throughput simultaneous determination of the HIV protease inhibitors indinavir and L-756423 in human plasma using semi-automated 96-well solid phase extraction and LC-MS/MS M.J. Rose, S.A. Merschman, R. Eisenhandler, E.J. Woolf, K.C. Yeh, L. Lin, W. Fang, J. Hsieh, M.P. Braun, G.J. Gatto, B.K. Matuszewski (West Point, PA, USA).	291
In vitro biotransformation of the new antipsychotic agent, RWJ-46344 in rat hepatic S9 fraction: API-MS/MS/MS identification of metabolites W.-N. Wu, L.A. McKown, M.D. Moyer, A.B. Reitz (Spring House, PA, USA).	307
Reversed phase HPLC of Met ⁵⁸ oxidized rhIL-11: oxidation enhanced by plastic tubes H. Yokota, H. Saito, K. Masuoka, H. Kaniwa, T. Shibamura (Tsukuba-shi, Japan)	317
Development and validation of a semi-automated method for L-dopa and dopamine in rat plasma using electrospray LC/MS/MS W. Li, D.T. Rossi, S.T. Fountain (Ann Arbor, MI, USA)	325

Number 3

A stability-indicating LC method for the simultaneous determination of ramipril and hydrochlorothiazide in dosage forms F. Belal, I.A. Al-Zaagi, E.A. Gadkariem, M.A. Abounassif (Riyadh, Saudi Arabia)	335
Visualization of fluid-bed granulation with self-organizing maps J.T. Rantanen, S.J. Laine, O.K. Antikainen, J.-P. Mannermaa, O.E. Simula, J.K. Yliruusi (Finland).	343
Optimization of TLC analysis of flavonoids and phenolic acids of <i>Helleborus atrorubens</i> Waldst. et Kit. Ž. Maleš, M. Medić-Šarić (Zagreb, Croatia).	353
Ion-selective piezoelectric sensor for niacinamide assay in serum and urine Y. Long, W. Li, L. Nie, S. Yao (Changsha, China)	361
A stability-indicating HPLC assay method for budesonide S. Hou, M. Hindle, P.R. Byron (Richmond, VA, USA).	371
Determination of cilostazol and its metabolites in human urine by high performance liquid chromatography P.N.V. Tata (Rockville, MD, USA), C.H.J. Fu (Shawnee, KS, USA), S.L. Bramer (Rockville, MD, USA)	381

Validation of an HPLC method for the determination of urinary and plasma levels of <i>N</i> ¹ -methylnicotinamide, an endogenous marker of renal cationic transport and plasma flow	
C. Musfeld, J. Biollaz, N. B�elaz, U.W. Kesselring, L.A. Decosterd (Lausanne, Switzerland)	391
Determination of isepamicin sulfate and related compounds by high performance liquid chromatography using evaporative light scattering detection	
R. Vogel, K. DeFillipo, V. Reif (Kenilworth, NJ, USA).	405
Stripping voltammetric determination of indapamide in serum at castor oil-based carbon paste electrodes	
A. Radi (Dumyat, Egypt)	413
Determination of ambroxol or bromhexine in pharmaceuticals by capillary isotachopheresis	
M. Posp�iřilov�a, M. Pol�ařek, V. Jokl (Heyrovsk�eho, Czech Republic)	421
Immunoreactivity of 80-kDa peptidoglycan and teichoic acid-like substance of slime producing <i>S. epidermidis</i> and specificity of their antibodies studied by an enzyme immunoassay	
F. Kolonitsiou, A. Syrokou, N.K. Karamanos, E.D. Anastassiou, G. Dimitracopoulos (Patras, Greece).	429
A method for measuring potency of narasin extracts using near-IR spectroscopy	
D.L. Morris Jr (IN, USA), R.A. Forbes (Indianapolis, IN, USA)	437
A single-channel method for evaluation of very magnitudes of Ca ²⁺ ion fluxes through ϵ 4/ ζ 1 <i>N</i> -methyl-D-aspartate receptor channels in bilayer lipid membranes	
M. Wakabayashi, A. Hirano, M. Sugawara (Tokyo, Japan), S. Uchino, S. Nakajima-Iijima (Yokohama, Japan).	453
High-performance liquid chromatographic analysis and stability of anti-tumor agent temozolomide in human plasma	
H. Kim (Kenilworth, NJ, USA), P. Likhari (Houston, TX, USA), D. Parker, P. Statkevich, A. Marco, C.-C. Lin, A.A. Nomeir (Kenilworth, NJ, USA)	461
Simultaneous determination of paracetamol and methocarbamol in tablets by ratio spectra derivative spectrophotometry and LC	
N. Erk, Y. �zkan, E. Banođlu, S.A. �zkan, Z. řent�rk (Ankara, Turkey)	469
LC- ¹ H NMR used for determination of the elution order of <i>S</i> -naproxen glucuronide isomers in two isocratic reversed-phase LC-systems	
R.W. Mortensen (Copenhagen, Denmark), O. Corcoran (London, UK), C. Cornett (Copenhagen, Denmark), U.G. Sidelmann (M�alov, Denmark), J. Troke, J.C. Lindon, J.K. Nicholson (London, UK), S.H. Hansen (Copenhagen, Denmark).	477
Determination of perfluorobutane in rat blood by automatic headspace capillary gas chromatography and selected ion monitoring mass spectrometry	
E. Hvattum, P. Trygve Normann, I. Oulie, S. Uran, O. Ringstad, T. Skotland (Oslo, Norway).	487
Determination of Cremophor [®] EL in plasma after sample preparation with solid phase extraction and plasma protein precipitation	
Th. Meyer, J. B�hler, A.W. Frahm (Freiburg im Breisgau, Germany).	495
Analysis of glimepiride by using derivative UV spectrophotometric method	
S. Altin�z, D. Tekeli (Ankara, Turkey)	507
LC coupled to ion-trap MS for the rapid screening and detection of polyphenol antioxidants from <i>Helichrysum stoechas</i>	
M. Carini, G. Aldini (Milano, Italy), S. Furlanetto (Firenze, Italy), R. Stefani, R.M. Facino (Milano, Italy)	517

Number 4

First derivative spectrophotometric, TLC-densitometric, and HPLC determination of acebutolol HCL in presence of its acid-induced degradation product	
A. El-Gindy, A. Ashour (Ismailia, Egypt), L. Abdel-Fattah, M.M. Shabana (Cairo, Egypt)	527
The quantification of endogenous steroids in bovine aqueous humour and vitreous humour using isotope dilution GC-NCI-MS	
Z. Iqbal, J.M. Midgely, D.G. Watson (Glasgow, UK).	535
Development of a capillary electrophoresis assay for the determination of carvedilol enantiomers in serum using cyclodextrins	
L. Clohs, K.M. McErlane (Vancouver, Canada)	545
Rapid and simple determination of mycophenolic acid in human plasma by ion-pair RP-LC with fluorescence detection	
H. Hosotsubo (Osakafu, Japan), S. Takahara, Y. Kokado, S. Permpongkosol, J.-D. Wang, T. Tanaka, K. Matsumiya, M. Kitamura, A. Okuyama, H. Sugimoto (Osaka, Japan)	555
Spectrophotometric determination of ampicillin, diclucxacillin, flucloxacillin and amoxicillin antibiotic drugs: ion-pair formation with molybdenum and thiocyanate	
G.G. Mohamed (Giza, Egypt).	561

Directly coupled HPLC-NMR and HPLC-MS approaches for the rapid characterisation of drug metabolites in urine: application to the human metabolism of naproxen	
U.G. Sidelmann, I. Bjørnsdóttir (Maaloev, Denmark), J.P. Shockcor (Newark, DE, USA), S.H. Hansen (Copenhagen, Denmark), J.C. Lindon, J.K. Nicholson (London, UK)	569
New reagents for detection of faecal occult blood	
A.A. Syed, B.A. Khatoun, M.F. Silwadi (Mysore, India)	581
Determination of diclofenac sodium, flufenamic acid, indomethacin and ketoprofen by LC-APCI-MS	
M.E. Abdel-Hamid, L. Novotny, H. Hamza (Kuwait, Kuwait).	587
Study of partition of nitrazepam in bile salt micelles and the role of lecithin	
B. de Castro, P. Gameiro, C. Guimarães, J.L.F.C. Lima, S. Reis (Porto, Portugal).	595
Analysis of binary mixtures of losartan potassium and hydrochlorothiazide by using high performance liquid chromatography, ratio derivative spectrophotometric and compensation technique	
N. Erk (Ankara, Turkey).	603
Assessing molecular similarity/diversity of chemical structures by FT-IR spectroscopy	
V. Schoonjans, F. Questier, Q. Guo, Y. Van der Heyden, D.L. Massart (Brussels, Belgium).	613
Simultaneous identification and quantitative determination of neomycin sulfate, polymixin B sulfate, zinc bacitracin and methyl and propyl hydroxybenzoates in ophthalmic ointment by TLC	
J. Krzek, M. Starek, A. Kwiecień, W. Rzeszutko (Cracow, Poland)	629
Non-ionic micellar affinity capillary electrophoresis for analysis of interactions between micelles and drugs	
Y. Mrestani, R.H.H. Neubert (Halle/S., Germany).	637
¹³ C/ ¹² C Isotope ratio MS analysis of testosterone, in chemicals and pharmaceutical preparations	
X. de la Torre (Barcelona, , Spain), J.C. González (Barcelona, Spain), S. Pichini (Roma, Italy), J.A. Pascual, J. Segura (Barcelona, Spain).	645
Isolation and identification of a degradation product in a capsule formulation containing the elastase inhibitor, DMP 777	
D. Buckley, M.J. Haas, T.H. Scholz, K.W. Sigvardson (Wilmington, DE, USA)	651
Determination of cisapride in pharmaceutical preparations using derivative spectrophotometry	
E.M. Hassan (Alexandria, Egypt), M.E.M. Haggga, H.I. Al Johar (Riyadh, Saudi Arabia)	659
Determination of assay and impurities of gamma irradiated chloramphenicol in eye ointment	
L. Hong, H. Altorfer (Zurich, Switzerland)	667
A simple HPLC method for quantitation of enalaprilat	
H. Tajerzadeh, M. Hamidi (Tehran, Iran)	675
NMR characterization of a novel bile acid sequestrant, DMP 504	
S.A. Lerke, G. Nemeth, E. Schubert, P.K. Hovsepian (Wilmington, DE, USA)	681
A simple and efficient high-performance liquid chromatographic assay for etomidate in plasma	
M.P. McIntosh, R.A. Rajewski (Lawrence, KS, USA).	689
Validation of a CE assay for the analysis of isomeric aminopyridines and diaminopyridines	
S. Sabbah, G.K.E. Scriba (Jena, Germany)	695
Oxidative degradation study of nitrendipine using stability indicating, HPLC, HPTLC and spectrophotometric method	
D.N. Tipre, P.R. Vavia (Mumbai, India)	705
Improved high performance liquid chromatographic analysis of omeprazole in human plasma	
K.H. Yuen, W.P. Choy, H.Y. Tan, J.W. Wong, S.P. Yap (Penang, Malaysia).	715

Numbers 5–6

Foreword	721
Guidance for robustness/ruggedness tests in method validation	
Y. Vander Heyden (Brussel, Belgium), A. Nijhuis (Vlaardingen, The Netherlands), J. Smeyers-Verbeke (Brussel, Belgium), B.G.M. Vandeginste (Vlaardingen, The Netherlands), D.L. Massart (Brussel, Belgium).	723
Validation in pharmaceutical analysis. Part I: An integrated approach	
J. Ermer (Frankfurt, Germany)	755
The role of pharmacopoeias in international harmonisation	
A. Artiges (Strasbourg, France)	769
High-throughput assays on the chip based on metal nano-cluster resonance transducers	
C. Mayer, N. Stich (Delft, The Netherlands), R. Palkovits (Wien, Austria), G. Bauer (Delft, The Netherlands), F. Pittner (Wien, Austria), T. Schalkhammer (Delft, The Netherlands)	773

Capillary electrophoretic separation, immunochemical recognition and analysis of the diastereomers quinine and quinidine and two quinidine metabolites in body fluids S. Zaugg, W. Thormann (Bern, Switzerland)	785
Development and validation of an automated method for the liquid chromatographic determination of sotalol in plasma using dialysis and trace enrichment on a cation-exchange pre-column as on-line sample preparation P. Chiap, A. Ceccato, B. Miralles Buraglia (Liège, Belgium), B. Boulanger (Mont-Saint-Guibert, Belgium), P. Hubert, J. Crommen (Liège, Belgium)	801
Proteomics — the protein expression technology to study connective tissue biology G. Westergren-Thorsson, J. Malmström, G. Marko-Varga (Lund, Sweden)	815
(Immuno)affinity chromatography: a versatile tool for fast and selective purification, concentration, isolation and analysis M.M. Rhemrev-Boom (Nijmegen, The Netherlands), M. Yates, M. Rudolph (Eschwege, Germany), M. Raedts (Emmen, The Netherlands)	825
Cystatin C, β 2-microglobulin, and retinol-binding protein as indicators of glomerular filtration rate: comparison with plasma creatinine C. Donadio, A. Lucchesi, M. Ardini, R. Giordani (Pisa, Italy)	835
The evaluation of interdigitated array electrodes for measurement of catecholamines and indoleamines J. Senior, A. Shah (Harlow, UK), C. Monteux (Strasbourg, France), V. De Biasi (Harlow, UK)	843
Capillary electrophoresis and high-performance anion exchange chromatography for monitoring caseinoglycomacropeptide sialylation Y. Daali, S. Cherkaoui, J.-L. Veuthey (Geneva, Switzerland)	849
Determination of 8-chloroadenosine 3',5'-monophosphate in dog plasma by capillary electrophoresis N.N. Davydova (Washington, DC, USA), J. Glisic (Costa Mesa, CA, USA), I.W. Wainer (Washington, DC, USA)	857
Analysis and enantioresolution of donepezil by capillary electrophoresis R. Gotti, V. Cavrini, R. Pomponio, V. Andrisano (Bologna, Italy)	863
A preliminary study of β -cyclodextrin/metoprolol tartrate inclusion complex for potential enantiomeric separation D.M. Radulovic, K.D. Karljikovic-Rajic, B.M. Lucic, Z.B. Vujic (Belgrade, Yugoslavia)	871
Application of LC-MS analysis to the characterisation of the in vitro and in vivo metabolite profiles of RGH-1756 in the rat L.I. Gémesi, M. Kapás, S. Szeberényi (Budapest, Hungary)	877
Validation of a chromatographic method to determine E-6006 and its metabolite E-6332 in rat and dog plasma by solid-phase extraction and capillary gas chromatography. Application in pharmacokinetics S. Puig, T. Moragon, A. García-Soret, L. Martínez (Barcelona, Spain)	887
Development and validation of two chromatographic methods for the quantification of E-6087 and one of its metabolites, E-6132, in rat plasma R.F. Reinoso, R. Farrán, T. Moragon, A. García-Soret, L. Martínez (Barcelona, Spain)	897
An HPLC/UV method for the determination of RGH-1756 in dog and rat plasma E. Terjéki, M. Kapás (Budapest, Hungary)	913
Simultaneous determination of total and free drug plasma concentrations combined with batch-wise pH-adjustment for the free concentration determinations L.B. Nilsson, S. Schmidt (Södertälje, Sweden)	921
Determination of myocardial norepinephrine in freely moving rats using in vivo microdialysis sampling and liquid chromatography with dual-electrode amperometric detection M.A. Gilinsky (Novosibirsk, Russia), A.A. Faibushevish, C.E. Lunte (Lawrence, KS, USA)	929
High-performance liquid chromatographic determination of ursodeoxycholic acid after solid phase extraction of blood serum and detection-oriented derivatization M. Nobilis, M. Pour, J. Kuneš, J. Kopecký, J. Května, Z. Svoboda, K. Sládková (Hradec Králové, Czech Republic), J. Vortel (, Czech Republic)	937
Specific and non-specific measurements of tissue angiotensin II cascade members G.O.A. Naik, G.W. Moe (Toronto, Canada), P.W. Armstrong (Edmonton, Canada)	947
Stability-indicating HPLC assay and solution stability of a new diaziridinyl benzoquinone A.P. Cheung, E. Struble, N. Nguyen (Menlo Park, CA, USA), P. Liu (Bethesda, MD, USA)	957
The unusual gradient elution for reversed phase HPLC of a strong chelator as an active drug substance T. Kalendarev, G. Zupkovitz, V. Ioffe (Rehovot, Israel)	967
Optimization of HPLC method for stability testing of bacitracin V. Pavli (, Slovenia), V. Kmetec (Ljubljana, Slovenia)	977
HPLC and GC-MS screening of Chinese proprietary medicine for undeclared therapeutic substances S.-Y. Liu, S.-O. Woo, H.-L. Koh (Singapore, Singapore)	983

Simultaneous HPLC determination of nitrendipine and impurities of the process of synthesis V. Marinkovic (Leskovac, Yugoslavia), D. Agbaba, S. Vladimirov (Belgrade, Yugoslavia), S. Stankovic (Leskovac, Yugoslavia)	993
Validated HPLC method for quantifying permethrin in pharmaceutical formulations E. García, A. García, C. Barbas (Madrid, Spain)	999
Validation of an HPLC method for the quantification of ambroxol hydrochloride and benzoic acid in a syrup as pharmaceutical form stress test for stability evaluation M. Heinänen (Helsinki, Finland), C. Barbas (Madrid, Spain)	1005
Ion exchange chromatographic determination of olpadronate, phosphate, phosphite, chloride and methanesulfonic acid O. Quattrocchi, L. Frisardi, M. Iglesias, M. Noya, M. Caputto, D. Ferraris, D. Siliprandi, E. Piccinni (Buenos Aires, Argentina)	1011
The use of a response surface methodology on HPLC analysis of methyl dopa, amiloride and hydrochlorothiazide in tablets M. Zečević, L. Živanović (Belgrade, Yugoslavia), S. Agatonovic-Kustrin (Dunedin, New Zealand), D. Minic (Belgrade, Yugoslavia)	1019
Potentiometric determination of acetylsalicylic acid by sequential injection analysis (SIA) using a tubular salicylate-selective electrode H. Paseková (Hradec Králové, Czech Republic), M.G. Sales, M.C. Montenegro, A.N. Araújo (Porto, Portugal), M. Polášek (Hradec Králové, Czech Republic)	1027
Modeling of supercritical extraction of mannitol from plane tree leaf S.M. Ghoreishi, S. Sharifi (Isfahan, Iran)	1037
Simultaneous determination of quercetin, kaempferol and (<i>E</i>)-cinnamic acid in vegetative organs of <i>Schisandra chinensis</i> Baill. by HPLC R. Sladkovský, P. Solich, L. Opletal (Hradec Králové, Czech Republic)	1049
Evaluation of radical scavenging properties of several plants, fresh or from a herbalist's, using a superoxide dismutase biosensor L. Campanella, G. Favero, L. Persi, M. Tomassetti (Rome, Italy)	1055
Application of conventional UV, photodiode array (PDA) and fluorescence (FL) detection to analysis of phenolic acids in plant material and pharmaceutical preparations G. Zgórká, S. Kawka (Lublin, Poland)	1065
In vitro study on the transfer of volatile oil components K. Szentmihályi, E. Forgács, M. Hajdú, M. Then (Budapest, Hungary)	1073
Application of f–f luminescence of terbium ion for determination of non-steroidal anti-inflammatory drug-niflumic acid A. Egorova, S. Beltyukova, O. Teslyuk, V. Karpinchik (Odessa, Ukraine)	1081
Evaluation of electrophoretic method versus chromatographic, potentiometric and absorptiometric methodologies for determining pK _a values of quinolones in hydroorganic mixtures J. Barbosa, D. Barrón, J. Cano, E. Jiménez-Lozano, V. Sanz-Nebot, I. Toro (Barcelona, Spain)	1087
Analysis of all-in-one parenteral nutrition admixtures by liquid chromatography and laser diffraction: study of stability A. Sforzini, G. Bersani, A. Stancari, G. Grossi, A. Bonoli, G.C. Ceschel (Bologna, Italy)	1099
Thermal stability of disodium and calcium phosphomycin and the effects of the excipients evaluated by thermal analysis S. Vecchio, F. Rodante, M. Tomassetti (Rome, Italy)	1111
<i>Short communications</i>	
Doping control for nandrolone using hair analysis P. Kintz, V. Cirimele (Strasbourg, France), V. Dumestre-Toulet (Artigues pres Bordeaux, France), B. Ludes (Strasbourg, France)	1125
Determination of the adenosine A ₁ agonist N ⁶ -cyclopentyladenosine in rat blood by solid-phase extraction and HPLC S. Scalia, S. Simeoni, A. Dalpiaz, S. Villani (Ferrara, Italy)	1131
A new HPLC micromethod to measure total plasma homocysteine in newborn S. Bartesaghi (Erba, Italy), R. Accinni (Milan, Italy), G. De Leo (Erba, Italy), C.F. Cursano, J. Campolo (Milan, Italy), C. Galluzzo, P.G. Vegezzi (Erba, Italy), O. Parodi (Milan, Italy)	1137
HPLC determination of adenosine in human synovial fluid E. Sottofattori, M. Anzaldi, L. Ottonello (Genova, Italy)	1143
Enzymatic determination of acetylcarnitine for diagnostic applications K. Tomita, S. Sakurada, S. Minami (Yokohama, Japan)	1147
Determination of enzyme (angiotensin convertase) inhibitors based on enzymatic reaction followed by HPLC E. Anzenbacherová, P. Anzenbacher, K. Macek, J. Květina (Hradec Kralove, Czech Republic)	1151
Bioanalysis of age-related changes of lipid metabolism in nonagenarians D. Solichova, B. Juraskova, V. Blaha, M. Bratova, M. Kusalova, P. Zdansky, Z. Zadak (Hradec Kralove, Czech Republic)	1157

Essential oils analysis. II. Mass spectra identification of terpene and phenylpropane derivatives R. Oprean, L. Oprean, M. Tamas, R. Sandulescu, L. Roman (Cluj-Napoca, Romania)	1163
Quantitative analysis of analgoantipyretics in dosage form using planar chromatography J.T. Franeta, D.D. Agbaba, S.M. Eric, S.P. Pavkov, S.D. Vladimirov, M.B. Aleksic (Belgrade, Yugoslavia)	1169
Direct voltammetry for vitamin B ₂ determination in aqueous solution by using glassy carbon electrode I.O. Marian (Cluj-Napoca, Romania), N. Bonciocat (Bucharest, Romania), R. Săndulescu, C. Filip (Cluj-Napoca, Romania)	1175
<i>Volume Contents</i>	1183
<i>Author Index</i>	1191
<i>Subject Index</i>	1197
<i>Instructions to Authors</i>	