



LIST OF CONTENTS

Number 1

Regular papers

- A selective HPLC method for determination of lercanidipine in tablets
A. Álvarez-Lueje, S. Pujol, J.A. Squella, L.J. Núñez-Vergara (Santiago, Chile) 1
- Determination of potassium ions in pharmaceutical samples by FIA using a potentiometric electrode based on ionophore nonactin occluded in EVA membrane
C.A.B. Garcia (São Cristóvão, Brazil), L.R. Júnior (Itu, Brazil), G.O. Neto (Bragança Paulista, Brazil). 11
- The determination of a potential impurity in Thalidomide drug substance and product by HPLC with indirect UV detection
J. Li, M.S. Jaworsky, D.I. Stirling (Warren, NJ, USA) 19
- LC-MS and NMR determination of a dichloromethane artifact adduct, cyproheptadine chloromethochloride
M. Li, E.S. Ahuja, D.M. Watkins (West Point, PA, USA) 29
- Simultaneous determination of naphazoline, diphenhydramine and phenylephrine in nasal solutions by capillary electrophoresis
A.F. Marchesini, M.R. Williner, V.E. Mantovani, J.C. Robles, H.C. Goicoechea (Santa Fe, Argentina). 39
- Determination of 3'-C-ethynylcytidine in human plasma and urine by liquid chromatographic-electrospray ionization tandem mass spectrometry
K. Matsuoka, R. Kitamura, E. Matsushima, Y. Kawaguchi (Tokushima, Japan) 47
- LC method for the determination of oxcarbazepine in pharmaceutical preparations
M.L. Qi (Beijing, People's Republic of China), P. Wang, L.J. Wang (Shenyang, People's Republic of China), R.N. Fu (Beijing, People's Republic of China) 57
- Utilizing capillary gas chromatography mass spectrometry to determine 4-benzotrifluoride *t*-butyl ether as a reaction by-product in fluoxetine synthesized using potassium *t*-butoxide as base
D.K. Robbins, P.N. Dodson, L.A. Buccilli, D. Mitchell (Indianapolis, IN, USA). 63
- Determination of hydroxyanthraquinoids in Rhubarb by cyclodextrin-modified micellar electrokinetic chromatography using a mixed micellar system of sodium dodecyl sulfate and sodium cholate
X. Shang, Z. Yuan (Beijing, People's Republic of China). 75
- Biosensor analysis of the molecular interactions of pentosan polysulfate and of sulfated glycosaminoglycans with immobilized elastase, hyaluronidase and lysozyme using surface plasmon resonance (SPR) technology
B. Shen, S. Shimmon, M.M. Smith (St. Leonards, Australia), P. Ghosh (St. Leonards, Sydney, Australia) 83
- In vitro metabolism of the new anxiolytic agent, RWJ-52763 in human hepatic S9 fraction-API-MS/MS identification of metabolites
W.-N. Wu, L.A. McKown, A.B. Reitz (Spring House, PA, USA) 95

A validated SPE–LC-MS/MS assay for Eplerenone and its hydrolyzed metabolite in human urine J.Y. Zhang, D.M. Fast, A.P. Breau (Skokie, IL, USA)	103
On-line preconcentration and determination of chromium in parenteral solutions by flow injection—flame atomic absorption spectrometry G.M. Wuilloud, R.G. Wuilloud, J.C.A. de Wuilloud (San Luis, Argentina), R.A. Olsina, L.D. Martinez (San Luis, Buenos Aires, Argentina)	117
Complete structure analysis of OR-1746, a complex product of cyclocondensation of arylhydrazomalnonitriles containing clusters of protonated and unprotonated nitrogens, by pulsed-field-gradient heteronuclear NMR P. Pollesello, P. Nore (Espoo, Finland).	125
Optimisation for the separation of the oligosaccharide, sodium Pentosan Polysulfate by reverse polarity capillary zone electrophoresis using a central composite design S. Prochazka, M. Mulholland, A. Lloyd-Jones (Broadway, Australia)	133
Spectrophotometric determination of polyethylenimine in the presence of an oligonucleotide for the characterization of controlled release formulations F. Ungaro, G. De Rosa, A. Miro, F. Quaglia (Napoli, Italy).	143
Automated determination of selected water-soluble vitamins in tablets using a bench-top robotic system coupled to reversed-phase (RP-18) HPLC with UV detection U. Höller, C. Brodhag, A. Knöbel, P. Hofmann, V. Spitzer (Basel, Switzerland)	151
Prediction of drug release profiles using an intelligent learning system: an experimental study in transdermal iontophoresis C.P. Lim, S.S. Quek, K.K. Peh (Penang, Malaysia)	159
<i>Short communications</i>	
Determination of 5-aminosalicylic acid in pharmaceutical formulation by differential pulse voltammetry B. Nigović, B. Šimunić (Zagreb, Croatia)	169
Analysis of ‘SHENMAI’ injection by HPLC/MS/MS Z. Haijiang, W. Yongjiang, C. Yiyu (Hangzhou, People’s Republic of China)	175
Semi-micro high-performance liquid chromatographic analysis of tiropramide in human plasma using column-switching S.K. Baek, S.S. Lee, E.J. Park, D.H. Sohn, H.S. Lee (Iksan, South Korea)	185
Evaluation of a silica-based monolithic column in the HPLC analysis of taxanes M.-J. Rocheleau, C. Jean, J. Bolduc, D. Carazzato (Candiac, Canada)	191
Rapid determination of metformin in human plasma using ion-pair HPLC A. Zarghi, S.M. Foroutan, A. Shafaati, A. Khoddam (Tehran, Iran)	197
Optimization and validation of conventional and micellar LC methods for the analysis of methyltestosterone in sugar-coated pills R. Gonzalo-Lumbreras, R. Izquierdo-Hornillos (Madrid, Spain)	201
Colorimetric determination of gabapentin in pharmaceutical formulation H.E. Abdellatef, H.M. Khalil (Zagazig, Egypt)	209

Number 2

Regular papers

Development of a LC method for pharmaceutical quality control of the antimetastatic ruthenium complex NAMI-A M. Bouma, B. Nuijen, M.T. Jansen (Amsterdam, The Netherlands), G. Sava, F. Picotti, A. Flaibani (Trieste, Italy), A. Bult (Utrecht, The Netherlands), J.H. Beijnen (Amsterdam, Utrecht, The Netherlands)	215
---	-----

Spectrophotometric and chromatographic determination of rabeprazole in presence of its degradation products A. El-Gindy (Ismailia, Egypt), F. El-Yazby, M.M. Maher (Alexandria, Egypt)	229
Rapid quantification of the non-competitive NMDA antagonist MK-801 in canine cerebrospinal fluid and plasma by capillary gas chromatography-nitrogen phosphorus detection S. Rossi, T. Yaksh (La Jolla, CA, USA).	243
A simultaneous liquid chromatography/mass spectrometric assay of glutathione, cysteine, homocysteine and their disulfides in biological samples X. Guan, B. Hoffman, C. Dwivedi, D.P. Matthees (Brookings, SD, USA)	251
HPLC method for the analysis of harmol, harmalol, harmine and harmaline in the seeds of <i>Peganum harmala</i> L. M. Kartal, M.L. Altun, S. Kurucu (Ankara, Turkey)	263
Structural studies on the impurities of troglitazone J. Moses Babu, D. Nageshwar, Y. Ravindra Kumar, C. Prabhakar, M.R. Sarma, G. Om Reddy, K. Vyas (Hyderabad, India)	271
Quantitation of paclitaxel in micro-sample rat plasma by a sensitive reversed-phase HPLC assay L.Z. Wang, P.C. Ho, H.S. Lee, H.K. Vaddi, Y.W. Chan, C.S. Yung (Singapore)	283
LC determination of salinomycin in fermentation broths and premixes M. Blazsek, A. Surovcová (Slovenska Lupca, Slovakia)	291
Investigation of structure and enantioselectivity of BSA-encapsulated sol-gel columns prepared for capillary electrochromatography K. Sakai-Kato, M. Kato, H. Nakakuki, T. Toyo'oka (Shizuoka, Japan)	299
Direct separation and quantitative determination of clenbuterol enantiomers by high performance liquid chromatography using an amide type chiral stationary phase Y. Song, D. Wang, Y. Hu, X. Chen, Y. Jiao (Beijing, PR China), D. Hou (Anshan, PR China)	311
HPLC for in-process control in the production of sultamicillin L. Laviana, F. Fernández-Marí, M. Bayod (Llanera, Spain), D. Blanco (Oviedo, Spain)	321
Simultaneous determination of hydrochlorothiazide and several angiotensin-II-receptor antagonists by capillary electrophoresis S. Hillaert, W. Van den Bossche (Ghent, Belgium)	329
Sensitive determination of oxybutynin and desethyloxybutynin in dog plasma by LC-ESI/MS/MS H. Kim, S.B. Han (Seoul, South Korea)	341
Potential of capillary electrophoresis for the monitoring of the stability of placental alkaline phosphatase H.J.C. Eriksson, M. Wijngaard, W.L.J. Hinrichs, H.W. Frijlink, G.W. Somsen, G.J. de Jong (Groningen, The Netherlands)	351
Simultaneous determination of montelukast and loratadine by HPLC and derivative spectrophotometric methods T. Radhakrishna, A. Narasaraaju (Visakhapatnam, India), M. Ramakrishna (Gaddapotaram, India), A. Satyanarayana (Visakhapatnam, India)	359
<i>Short communications</i>	
Effect of nicotinamide on the photolysis of cyanocobalamin in aqueous solution I. Ahmad, I.A. Ansari, T. Ismail (Karachi, Pakistan)	369
Evaluation of stability of enalapril maleate in solid phase B. Stanis (Poznan, Poland)	375

Validated spectrophotometric methods for the determination of amlodipine besylate in drug formulations using 2,3-dichloro 5,6-dicyano 1,4-benzoquinone and ascorbic acid N. Rahman, M. Nasrul Hoda (Aligarh, India)	381
Method development and validation for the analysis of meloxicam in tablets by CZE E. Nemutlu, S. Kir (Ankara, Turkey)	393
Analysis of adulterants in a traditional herbal medicinal product using liquid chromatography–mass spectrometry–mass spectrometry A.-J. Lau, M.J. Holmes, S.-O. Woo, H.-L. Koh (Singapore)	401

Number 3

Regular papers

Comparison between capillary electrophoresis and high-performance liquid chromatography for the stereoselective analysis of carvedilol in serum L. Clohs, K.M. McErlane (Vancouver, Canada)	407
Quantitation of film coating on Zantac® 75 mg tablets and Eпивir HBV® 100 mg tablets by ICP-AES C. Incledon, C. Paquet, A. Johnston, R. Jairam, L. Dass, H. Lam (Mississauga, Canada)	413
Voltammetric and flow amperometric methods for the determination of melatonin in pharmaceuticals J.L. Corujo-Antuñña, E.M. Abad-Villar, M.T. Fernández-Abedul, A. Costa-García (Oviedo, Spain)	421
Chiral and non chiral determination of Dopa by capillary electrophoresis M. Blanco, I. Valverde (Barcelona, Spain)	431
Fast and single solid phase fluorescence spectroscopic batch procedure for (acetyl) salicylic acid determination in drug formulations S. Ortega Algar, N. Ramos Martos, A. Molina Díaz (Jaén, Spain)	439
Enhanced pharmaceutical analysis by CE using dynamic surface coating system K.D. Altria (Herts, UK)	447
Characterisation of the ¹ H and ¹³ C NMR spectra of <i>N</i> -acetylaspartylglutamate and its detection in urine from patients with Canavan disease H. Krawczyk, W. Gradowska (Warsaw, Poland)	455
Determination of the antibacterial trovafloxacin by differential-pulse adsorptive stripping voltammetry J.L. Vilchez, J. Taoufiki, L. Araujo, A. Navalón (Granada, Spain)	465
Determination of the composition of Chinese ligustrum lucidum polysaccharide by capillary zone electrophoresis with amperometric detection Q. Wang, H. Yu, J. Zong, P. He, Y. Fang (Shanghai, People's Republic of China)	473
Electroanalytical characteristics of piribedil and its differential pulse and square wave voltammetric determination in pharmaceuticals and human serum B. Uslu, S.A. Özkan (Ankara, Turkey)	481
Utility of formazans and cetylpyridinium chloride in rapid spectrophotometric determination of zinc in biological materials and pharmaceutical formulations A.S. Amin (Benha, Egypt), Y.M. Issa (Giza, Egypt)	491
Capillary electrophoresis determination of loratadine and related impurities H. Fernández, F.J. Rupérez, C. Barbas (Madrid, Spain)	499
Spectrofluorimetric and micelle-enhanced spectrofluorimetric methods for the determination of gemfibrozil in pharmaceutical preparations J.L. Manzoori, M. Amjadi (Tabriz, Iran)	507

PVC matrix membrane sensor for potentiometric determination of metoclopramide hydrochloride in some pharmaceutical formulations G.A.E. Mostafa (Cairo, Egypt)	515
Two stability-indicating UV spectrophotometric methods for the analysis of hydrolyzed tinidazole J.-P.K. Salo, H. Salomies (Helsinki, Finland)	523
Differential pulse anodic voltammetric determination of lithium ions in pharmaceutical formulations using a carbon paste electrode modified with spinel-type manganese oxide M.F.S. Teixeira, F.C. Moraes, É.T.G. Cavalheiro, N. Bocchi (São Carlos, Brazil).	537
Characterization of enzymatically digested hyaluronic acid using NMR, Raman, IR, and UV–Vis spectroscopies J.A. Alkrad, Y. Mrestani, D. Stroehl, S. Wartewig, R. Neubert (Halle/S., Germany)	545
Rapid and simple method for the analysis of nateglinide in human plasma using HPLC analysis with UV detection S. Bauer, E. Störmer, J. Kirchheiner, C. Michael (Berlin, Germany), J. Brockmöller (Berlin, Göttingen, Germany), I. Roots (Berlin, Germany)	551
Seizure of illicitly produced <i>para</i> -fluorofentanyl: quantitative analysis of the content of capsules and tablets D. de Boer (Lisbon, Portugal; Utrecht, The Netherlands), W.-P.J. Goemans, V.R. Ghezavat, R.D. van Ooijen, R.A.A. Maes (Utrecht, The Netherlands)	557
<i>Short communications</i>	
Sensitive spectrophotometric method for the determination of indomethacin in capsules P. Nagaraja, R.A. Vasantha, H.S. Yathirajan (Mysore, India)	563
Application of attenuated total reflectance Fourier transform infrared spectrometry to the determination of cephalosporin C in complex fermentation broths K. Kargosha, M. Khanmohammadi (Tehran, Iran), M. Sarokhani, F. Ansari (Gazvin, Iran), M. Ghadiri (Tehran, Iran)	571
Identification of photoproducts of folic acid and its degradation pathways in aqueous solution M. Jamil Akhtar, M. Ataullah Khan (Karachi, Pakistan), I. Ahmad (Dubai, United Arab Emirates)	579
Chromatographic determination of high-molecular weight impurities in amoxicillin C. Shan-Ying, H. Chang-Qin, X. Ming-Zhe (Beijing, People's Republic of China).	589
Determination of dexamethasone acetate in cream by HPLC C.V. Garcia, A.R. Breier, M. Steppe, E.E.S. Schapoval, T.P. Oppe (Porto Alegre, Brazil)	597
New polyvinyl chloride membrane electrode without inner reference solution for the determination of methadone S. Khalil (Fayoum, Egypt), A. Kelzieh (Latakia, Syria)	601
Evaluation of the recently reported USP gradient HPLC method for analysis of anti-tuberculosis drugs for its ability to resolve degradation products of rifampicin B. Mohan, N. Sharda, S. Singh (Punjab, India).	607

Number 4

Regular papers

GC determination of long chain fatty acids that compose D003 in 5-mg film-coated tablets E.M. Antolín, D.M. Delange, V.G. Canavaciolo, A.L. Granja (Havana City, Cuba)	613
Chemometrics assisted spectroscopic determination of vitamin B6, vitamin B12 and dexamethasone in injectables A.J. Nepote (Santa Fe, Argentina), P.C. Damiani, A.C. Olivieri (Rosario, Argentina)	621

Simultaneous micellar LC determination of lidocaine and tolperisone N. Youngvises (Chiang Mai, Pathum Thane, Thailand), B. Liawruangrath, S. Liawruangrath (Chiang Mai, Thailand)	629
Improved LC method to determine ivermectin in plasma J.G. Prieto, G. Merino, M.M. Pulido, E. Estevez, A.J. Molina, L. Vila, A.I. Alvarez (Leon, Spain)	639
A semi-automated 96-well protein precipitation method for the determination of montelukast in human plasma using high performance liquid chromatography/fluorescence detection C.J. Kitchen, A.Q. Wang, D.G. Musson, A.Y. Yang, A.L. Fisher (West Point, PA, USA)	647
Physical and chemical evaluation of liposomes, containing artesunate M. Gabriëls, J. Plaizier-Vercammen (Brussels, Belgium)	655
A flow injection sensor for simultaneous determination of sulfamethoxazole and trimethoprim by using Sephadex SP C-25 for continuous on-line separation and solid phase UV transduction M.L. Fernández de Córdova, P.O. Barrales, G.R. Torné, A.M. Díaz (Jaén, Spain)	669
Determination of dissociation constants of anthrocyline by capillary zone electrophoresis with amperometric detection Q. Hu, G. Hu (Nanjing, People's Republic of China), T. Zhou, Y. Fang (Shanghai, People's Republic of China)	679
Capillary gas chromatography determination of benzaldehyde arising from benzyl alcohol used as preservative in injectable formulations A.G. Kazemifard (Tehran, Iran), D.E. Moore (Sydney, Australia), A. Mohammadi, A. Kebriyaezadeh (Tehran, Iran)	685
Study on protolytic equilibria of lorazepam and oxazepam by UV and NMR spectroscopy G.V. Popović, D.M. Sladić, V.M. Stefanović, L.B. Pfindt (Belgrade, Yugoslavia)	693
Spectrophotometric and polarographic determination of enalapril and lisinopril using 2,4-dinitrofluorobenzene O. Abdel Razak, S.F. Belal, M.M. Bedair, N.S. Barakat, R.S. Haggag (Alexandria, Egypt)	701
Structural elucidation and conformational properties of the toxin paralyisin β -Ala-Tyr I. Kyrikou (Athens, Patras, Greece), S.G. Grdadolnik (Ljubljana, Slovenia), M. Tatari, C. Poulos (Patras, Greece), T. Mavromoustakos (Athens, Greece)	713
Detection and disposition of tolmetin in the horse P. Van Eenoo, F.T. Delbeke, K. Roels, K. Baert (Merelbeke, Belgium)	723
RP-HPLC and NMR study of <i>cis-trans</i> isomerization of enalaprilat S. Bouabdallah, H. Trabelsi (Tunis, Tunisia), T. Ben Dhia, S. Sabbah (le Belvédère, Tunisia), K. Bouzouita (Tunis, Tunisia), R. Khaddar (le Belvédère, Tunisia)	731
Effects of alkali and simulated gastric and intestinal fluids on danazol stability E.A. Gadkariem, H.A. El-Obeid, M.A. Abounassif, S.M. Ahmed (Riyadh, Saudi Arabia), K.E.E. Ibrahim (Khartoum, Sudan)	743
Radiolysis characterization of cetostearyl alcohol by gas chromatography-mass spectrometry L. Hong, H. Altorfer (Zurich, Switzerland)	753
Spectrophotometric and fluorimetric determination of aztreonam in bulk and dosage forms H. Mahgoub (Alexandria, Egypt)	767
The ICH guidance in practice: stress decomposition studies on three piperaziny quinazoline adrenergic receptor-blocking agents and comparison of their degradation behaviour T. Ojha, M. Bakshi, A.K. Chakraborti, S. Singh (, India)	775
<i>Short communications</i>	
Conductometric and indirect AAS determination of antimalarials A.S. Amin (Benha, Egypt), Y.M. Issa (Giza, Egypt)	785

The use of the new SPE methods for isolation of some tricyclic antidepressant drugs from human serum A. Jasińska, B. Starczewska (Białystok, Poland)	795
Spectrophotometric determination of binary mixtures of pseudoephedrine with some histamine H ₁ -receptor antagonists using derivative ratio spectrum method H. Mahgoub, A.A. Gazy, F.A. El-Yazbi, M.A. El-Sayed, R.M. Youssef (EL-Messalah, Egypt)	801
Voltammetric behavior of Cefixime and Cefpodoxime Proxetil and determination in pharmaceutical formulations and urine T.M. Reddy, M. Sreedhar, S. Jayarama Reddy (Tirupati, India)	811
Gallamine–tetraphenylborate-modified carbon paste electrode for the potentiometric determination of gallamine triethiodide (Flaxedil) M.N. Abbas, G.A.E. Mostafa (Cairo, Egypt)	819
Photochemical stability of nimesulide P. Kovaříková, M. Mokrý, J. Klimeš (Hradec Kralove, Czech Republic)	827

Number 5

Regular papers

Conformational and biological studies for a pair of novel synthetic AT ₁ antagonists: stereoelectronic requirements for antihypertensive efficacy P. Zoumpoulakis, A. Zoga (Athens, Greece), P. Roumelioti, N. Giatas (Patras, Greece), S.G. Grdadolnik (Ljubljana, Slovenia), E. Iliodromitis, D. Vlahakos, D. Kremastinos (Athens, Greece), J.M. Matsoukas (Patras, Greece), T. Mavromoustakos (Athens, Greece)	833
Development of a size exclusion chromatography method for the determination of molar mass for poloxamers B. Erlandsson (Södertälje, Sweden), B. Wittgren, G. Brinkmalm (Mölnådal, Sweden)	845
A sensitive fluorescence optosensor for analysing propranolol in pharmaceutical preparations and a test for its control in urine in sport J.F. Fernández-Sánchez, A.S. Carretero, C. Cruces-Blanco, A. Fernández-Gutiérrez (Granada, Spain)	859
Quantitative determination of ambroxol in tablets by derivative UV spectrophotometric method and HPLC Z. Dinçer, H. Basan, N.G. Göger (Ankara, Turkey)	867
Determination of prednisolone acetate, sulfacetamide and phenylephrine in local pharmaceutical preparations by micellar electrokinetic chromatography J.M. Lemus Gallego, J. Pérez Arroyo (Ciudad Real, Spain)	873
Investigation of the effect of space environment on the contents of atropine and scopolamine in <i>Datura metel</i> by capillary zone electrophoresis T. Bo, K.A. Li, H. Liu (Beijing, PR China)	885
Quantitative bioanalysis of enantiomeric drugs using capillary electrophoresis and electrospray mass spectrometry E.K. Kindt, S. Kurzyniec, S.-C. Wang, G. Kilby, D.T. Rossi (Ann Arbor, MI, USA)	893
Detection of choline and acetylcholine in a pharmaceutical preparation using high-performance liquid chromatography/electrospray ionization mass spectrometry R. Dunphy, D.J. Burinsky (Raritan, NJ, USA)	905
Liquid/liquid extraction using 96-well plate format in conjunction with hydrophilic interaction liquid chromatography–tandem mass spectrometry method for the analysis of fluconazole in human plasma A. Eerkes, W.Z. Shou, W. Naidong (Madison, WI, USA)	917
Determination of clodronate content in liposomal formulation by capillary zone electrophoresis P. Perjési, T. Kim, A.D. Zharikova, X. Li (Gainesville, FL, USA), T. Ramesh, J. Ramasubbu (Newton, MA, USA), L. Prokai (Gainesville, FL, USA)	929

Simultaneous quantification of seven active metabolites of roxifiban in human plasma by LC/MS/MS in the presence of an interfering displacer at millimolar concentrations G. Shi, T.L. Lloyd (Newark, DE, Wilmington, DE, USA), S.K.B. Sy, Q. Jiao (Newark, DE, USA), A. Wernicki, A. Mutlib (Newark, DE, Wilmington, DE, USA), T.A. Emm, S.E. Unger, H.J. Pieniaszek Jr. (Newark, DE, USA)	937
An LC-MS-MS method for the determination of nevirapine, a non-nucleoside reverse transcriptase inhibitor, in human plasma J. Chi (San Francisco, CA, Houston, TX, USA), A.L. Jayewardene, J.A. Stone, F.T. Aweeka (San Francisco, CA, USA)	953
Development of LC-MS method for determination of ursolic acid: application to the analysis of ursolic acid in <i>Staphylea holocarpa</i> Hemsl. L. Novotny, M.E. Abdel-Hamid, H. Hamza (Safat, Kuwait), I. Masterova, D. Grancai (Bratislava, Slovak Republic)	961
A zero-crossing technique for the multidetermination of thiamine HCl and pyridoxine HCl in their mixture by using one-dimensional wavelet transform E. Dinç (Ankara, Turkey), D. Baleanu (Ankara, Turkey; Magurele-Bucharest, Romania)	969
Finding of an isoleucine derivative of a recombinant protein for pharmaceutical use R. Muramatsu, S. Misawa, H. Hayashi (Toda, Japan)	979
Voltammetric determination of isradipine in dosage forms and spiked human plasma and urine F. Belal, A. Al-Majed, S. Julkhuf (Riyadh, Saudi Arabia)	989
Stereoselective determination of pyridoglutethimide enantiomers in serum with a chiral cellulose-based high-performance liquid chromatographic column using solid phase extraction and UV detection M.M. Hefnawy (Mansoura, Egypt)	999
<i>Short communications</i>	
Anodic voltammetric assay of lansoprazole and omeprazole on a carbon paste electrode A. Radi (Dumyat, Egypt)	1007
A study of the photo-degradation kinetics of nifedipine by multivariate curve resolution analysis M. Shamsipur (Kermanshah, Iran), B. Hemmateenejad, M. Akhond, K. Javidnia, R. Miri (Shiraz, Iran)	1013
HPLC analysis of 5 <i>H</i> -benzo[<i>a</i>]carbazole with antifungal activity A.I. Segall, M.F. Vitale, V.L. Perez, M.T. Pizzorno (Buenos Aires, Argentina)	1021
Spectrophotometric and titrimetric determination of nizatidine in capsules F.A. El-Yazbi, A.A. Gazy, H. Mahgoub, M.A. El-Sayed, R.M. Youssef (Alexandria, Egypt)	1027
Electrochemical analysis and analgesic behavior of Zn(II)-baclofen complex S. Jain, N.K. Jain, K.S. Pitre (Sagar, India)	1035

Number 6

Regular papers

Determination of cefonicid in human urine by adsorptive square-wave stripping voltammetry A. Radi (Dumyat, Egypt), T. Wahdan, N.A. El-Ghany (El-Arish, Egypt)	1041
Enantiomeric separation of β -blockers by HPLC using (<i>R</i>)-1-naphthylglycine and 3,5-dinitrobenzoic acid as chiral stationary phase X. Zhang, J. Ouyang (Beijing, People's Republic of China), W.R.G. Baeyens (Ghent, Belgium), S. Zhai (Peking, People's Republic of China), Y. Yang, G. Huang (Beijing, People's Republic of China)	1047
Simultaneous analysis of metabisulfite and sulfate by CE with indirect UV detection. Application to and validation for a pharmaceutical formulation L. Geiser, E. Varesio, J.-L. Veuthey (Geneva, Switzerland)	1059

Study of interactions between actinomycin D and DNA on carbon paste electrode (CPE) and on the hanging mercury drop (HMDE) surface I.C. Gherghi, S.T. Girousi, A.N. Voulgaropoulos, R. Tzimou-Tsitouridou (Thessaloniki, Greece)	1065
Determination of the antibiotic drug pefloxacin in bulk form, tablets and human serum using square wave cathodic adsorptive stripping voltammetry A.M. Beltagi (Kafr El-Sheikh, Egypt)	1079
A new generic column switching system for quantitation in cassette dosing using LC/MS/MS T. Ohkawa, Y. Ishida, E. Kanaoka, K. Takahashi, H. Okabe, T. Matsumoto, S. Nakamoto, J. Tamada, M. Koike, T. Yoshikawa (Osaka, Japan)	1089
Development of a HPLC method for the determination of cyclosporin-A in rat blood and plasma using naproxen as an internal standard A.-A. Zaghoul, A. Hussain, M.A. Khan, F. Ahsan (Amarillo, TX, USA)	1101
Validation of a new intraarterial microdialysis shunt probe for the estimation of pharmacokinetic parameters C. Höcht, J.A.W. Opezzo, C.A. Taira (Buenos Aires, Argentina)	1109
Determination of the dissociation constants of the cephalosporins cefepime and ceftiofime using UV spectrometry and pH potentiometry V. Evagelou, A. Tsantili-Kakoulidou, M. Koupparis (Athens, Greece)	1119
Dissolution of USP prednisone calibrator tablets: Effects of stirring conditions and particle size distribution M. Röst, P.-O. Quist (Södertälje, Sweden)	1129
The validation of column-switching LC/MS as a high-throughput approach for direct analysis of di(2-ethylhexyl) phthalate released from PVC medical devices in intravenous solution K. Inoue, T. Higuchi, F. Okada (Tokyo, Japan), H. Iguchi (Kanagawa-ken, Japan), Y. Yoshimura, A. Sato, H. Nakazawa (Tokyo, Japan)	1145
Development of a LC–LC–MS complete heart-cut approach for the characterization of pharmaceutical compounds using standard instrumentation E.M. Sheldon (Skokie, IL, USA)	1153
Rapid LC-TOFMS method for identification of binding sites of covalent acylglucuronide–albumin complexes T. Ohkawa, R. Norikura, T. Yoshikawa (Osaka, Japan)	1167
Development and validation of an automated extraction method (accelerated solvent extraction [®]) and a reverse-phase HPLC analysis method for assay of ivermectin in a meat-based chewable formulation A.M. Abend, L. Chung, D.G. McCollum, W.P. Wuelfing (West Point, PA, USA)	1177
Quantitative determination of diazepam, nitrazepam and flunitrazepam in tablets using thin-layer chromatography–densitometry technique M. Bakavoli (Mashhad, Iran), M. Kaykhaii (Zahedan, Iran)	1185
A HILIC method for the analysis of tromethamine as the counter ion in an investigational pharmaceutical salt Y. Guo, A. Huang (Raritan, NJ, USA)	1191
Liquid chromatographic determination of residual hydrogen peroxide in pharmaceutical excipients using platinum and wired enzyme electrodes T. Huang, M.E. Garceau, P. Gao (Kalamazoo, MI, USA)	1203
Identification of the degradation product of ezlopitant, a non-peptidic substance p antagonist receptor, by hydrogen deuterium exchange, electrospray ionization tandem mass spectrometry (ESI/MS/MS) and nuclear magnetic resonance (NMR) spectroscopy A.M. Kamel, K.S. Zandi, W.W. Masefski (Groton, CT, USA)	1211
<i>Short communications</i>	
Determination of tyramine in cheese by LC–UV M. Yigit, L. Ersoy (Istanbul, Turkey)	1223

A size-exclusion HPLC method for the determination of sodium chondroitin sulfate in pharmaceutical preparations D.W. Choi, M.J. Kim, H.S. Kim, S.H. Chang, G.S. Jung, K.Y. Shin, S.Y. Chang (Seoul, Republic of Korea)	1229
LC-MS method for the determination of albuterol enantiomers in human plasma using manual solid-phase extraction and a non-deuterated internal standard G.A. Jacobson, F.V. Chong, N.W. Davies (Hobart, Australia)	1237
Calendar of forthcoming events	1245
List of contents	1251
Author index	1261
Subject index	1267