

Related articles published in *Journal of Chromatography*, Vols. 644–646

Volume 644

- Recognition and separation of isoenzymes by metal chelates. Immobilized metal ion affinity partitioning of lactate dehydrogenase isoenzymes
by A. Otto and G. Birkenmeier (Leipzig, Germany) 25
- Efficient separation of natural ribonucleotides by low-pressure anion-exchange chromatography
by L. Cihlář and I. Rosenberg (Prague, Czech Republic) 299
- Coupled-column reversed-phase liquid chromatography–UV analyser for the determination of polar pesticides in water
by E. A. Hogendoorn (Bilthoven, Netherlands), U. A. Th. Brinkman (Amsterdam, Netherlands) and P. van Zoonen (Bilthoven, Netherlands) 307
- Direct column liquid chromatographic enantiomer separation of the coumarin anticoagulants phenprocoumon, warfarin, acenocoumarol and metabolites on an α_1 -acid glycoprotein chiral stationary phase
by J. X. de Vries and E. Schmitz-Kummer (Heidelberg, Germany) 315
- Analysis of paralytic shellfish poisoning toxins by automated pre-column oxidation and microcolumn liquid chromatography with fluorescence detection
by M. Janeček and M. A. Quilliam (Halifax, Canada) and J. F. Lawrence (Ottawa, Canada) 321

Volume 645

- Displacement chromatography on cyclodextrin silicas. IV. Separation of the enantiomers of ibuprofen
by Gy. Farkas, L. H. Irgens, G. Quintero, M. D. Beeson, A. Al-Saeed and Gy. Vigh (College Station, TX, USA) 67
- Direct separation of 4-amino-3-(4-chlorophenyl)butyric acid and analogues, GABA_B ligands, using a chiral crown ether stationary phase
by C. Vaccher, P. Berthelot and M. Debaert (Lille, France) 95
- High-performance gel-permeation chromatographic analysis of protein aggregation. Application to bovine carbonic anhydrase
by C. De Felice, K. Hayakawa, T. Watanabe and T. Tanaka (Tokyo, Japan) 101
- High-performance liquid chromatographic determination of the isomeric purity of a series of dioxolane nucleoside analogues
by M. P. Di Marco, C. A. Evans, D. M. Dixit, W. L. Brown, M. A. Siddiqui, H. L. A. Tse, H. Jin, N. Nguyen-Ba and T. S. Mansour (Québec, Canada) 107
- Characterization of vitamin D₃ metabolites using continuous-flow atom bombardment tandem mass spectrometry and high-performance liquid chromatography
by B. Yeung and P. Vouros (Boston, MA, USA) and G. Satyanarayana Reddy (Providence, RI, USA) 115
- Quantitation of 5-methylcytosine by one-dimensional high-performance thin-layer chromatography
by S. A. Leonard, S. C. Wong and J. W. Nyce (Greenville, NC, USA) 189
- Binding characteristics of various neurochemicals to glassy carbon
by Y. Ikarashi (Gunma, Japan), C. L. R. Blank (Norman, OK, USA) and Y. Maruyama (Gunma, Japan) 219
- Characterization of the binding and chiral separation of D- and L-tryptophan on a high-performance immobilized human serum albumin column
by J. Yang and D. S. Hage (Lincoln, NE, USA) 241
- Evaluation of deactivated reversed phases for the analysis of an N,N,N-trimethylethanaminium analogue of α -tocopherol. Application to its purity control and determination in biological samples
by J. Verne-Mismer, M. Lamard and J. Wagner (Strasbourg, France) 251
- Sensitive detection of nicotine after its novel perfluoroacylation and analysis using capillary gas chromatography–electron-capture detection
by J. M. Moore, D. A. Cooper, T. C. Kram and R. F. X. Klein (McLean, VA, USA) 273
- Mobility of single-stranded DNA as a function of cross-linker concentration in polyacrylamide capillary gel electrophoresis
by D. Figeys and N. J. Dovichi (Edmonton, Canada) 311

Separation of codeine and its by-products by capillary zone electrophoresis as a quality control tool in the pharmaceutical industry by M. Korman, J. Vindevogel and P. Sandra (Ghent, Belgium)	366
<i>Volume 646</i>	
Experimental and theoretical studies of rate constant evaluation by affinity chromatography. Determination of rate constants for the interaction of saccharides with concanavalin A by P. D. Munro and D. J. Winzor (Brisbane, Australia) and J. R. Cann (Denver, CO, USA)	3
Effect of the α -amino group on peptide retention behaviour in reversed-phase chromatography. Determination of the pK_a values of the α -amino group of 19 different N-terminal amino acid residues by T. J. Sereida, C. T. Mant, A. M. Quinn and R. S. Hodges (Edmonton, Canada)	17
Histidine-ligand chromatography of proteins. Multiple modes of binding mechanism by S. Hu and D. D. Do (Brisbane, Australia)	31
Effect of different amounts of the non-ionic detergents $C_{10}E_5$ and $C_{12}E_5$ present in eluents for ion-exchange high-performance liquid chromatography of integral membrane proteins of Sendai virus by S. Welling-Wester, M. Feijlbrief, D. G. A. M. Koedijk, M. A. Braaksma, B. R. K. Douma and G. W. Welling (Groningen, Netherlands)	37
High-performance liquid chromatographic determination of neutral and amino monosaccharides by ultraviolet and fluorescence detection of sugar 9-fluorenylmethoxycarbonyl hydrazones and 9-fluorenylmethoxycarbonyl amino sugars at picomole and sub-picomole levels by R. Zhang, Z. Zhang and G. Liu (Beijing, China) and Y. Hidaka and Y. Shimonishi (Osaka, Japan)	45
High-performance liquid chromatography of amino acids, peptides and proteins. CXXVIII. Effect of D-amino acid substitutions on the reversed-phase high-performance liquid chromatography retention behaviour of neuropeptide Y[18–36] analogues by M. I. Aguilar and S. Mougos (Clayton, Australia), J. Boublik (Pahran, Australia), J. Rivier (La Jolla, CA, USA) and M. T. W. Hearn (Clayton, Australia)	53
High-performance liquid chromatography of amino acids, peptides and proteins. CXXVI. Modelling of protein adsorption with non-porous and porous particles in a finite bath by Q. M. Mao, R. Stockmann, I. G. Prince and M. T. W. Hearn (Clayton, Australia)	67
High-performance liquid chromatography of amino acids, peptides and proteins. CXXXII. Optimisation of operating parameters for protein purification with chromatographic columns by Q. M. Mao, I. G. Prince and M. T. W. Hearn (Clayton, Australia)	81
Kinetics of recombinant human brain-derived neurotropic factor unfolding under reversed-phase liquid chromatography conditions by K. Benedek (Thousand Oaks, CA, USA)	91
Non-dialysis method of rapid and facile sample preparation for the desalting and purification of enzymes and other proteins from plant extracts by M. Shimoni, R. Reuveni and M. Cais (Haifa, Israel)	99
High-performance liquid chromatography of amino acids, peptides and proteins. CXXXI. O-Phosphoserine as a new chelating ligand for use with hard Lewis metal ions in the immobilized-metal affinity chromatography of proteins by M. Zachariou, I. Traverso and M. T. W. Hearn (Clayton, Australia)	107
Improvement in flow properties and pH stability of compressed, continuous polymer beds for high-performance liquid chromatography by S. Hjertén, J. Mohammad and K. Nakazato (Uppsala, Sweden)	121
High-performance liquid chromatography of amino acids, peptides and proteins. CXXXIX. Ceramic-based particles as chemically stable chromatographic supports by H.-J. Wirth, K.-O. Eriksson, P. Holt, M. Aguilar and M. T. W. Hearn (Clayton, Australia)	129
High-performance liquid chromatography of amino acids, peptides and proteins. CXXXX. Modified porous zirconia as sorbents in affinity chromatography by H.J. Wirth and M. T. W. Hearn (Clayton, Australia)	143
Separation of membrane-embedded tryptic peptides of Na,K-ATPase by size-exclusion chromatography by D. M. Tal, R. Goldshleger and S. J. D. Karlsh (Rehovot, Israel)	153
Mapping of the antibody- and receptor-binding domains of granulocyte colony-stimulating factor using an optical biosensor. Comparison with enzyme-linked immunosorbent assay competition studies by E. Nice, J. Layton and L. Fabri (Melbourne, Australia), U. Hellman, A. Engstrom and B. Persson (Uppsala, Sweden) and A. W. Burgess (Melbourne, Australia)	159

Rapid high-sensitivity peptide mapping by liquid chromatography–mass spectrometry by K. Mock, M. Hail, I. Mylchreest, J. Zhou, K. Johnson and I. Jardine (San Jose, CA, USA)	169
Analytical methods for differentiating minor sequence variations in related peptides by P. A. Grieve (Hamilton, Australia) and A. Jones and P. F. Alewood (St. Lucia, Australia)	175
Characterisation of TNF- α -related peptides by high-performance liquid chromatography–mass spectrometry and high-performance liquid chromatography–tandem mass spectrometry by P. F. Alewood, A. J. Bailey, R. I. Brinkworth, D. Fairlie and A. Jones (Brisbane, Australia)	185
Isolation of carboxyl-termini and blocked amino-termini of viral proteins by high-performance cation-exchange chromatography by J. J. Gorman (Geelong and Parkville, Australia) and B. J. Shiell (Geelong, Australia)	193
Human pepsin 3b peptide map sequence analysis, genotype and hydrophobic nature by A. T. Jones (Liverpool, UK), J. N. Keen (Leeds, UK) and N. B. Roberts (Liverpool, UK)	207
Structural characterisation of native and recombinant forms of the neurotrophic cytokine MK by L. Fabri and H. Maruta (Melbourne, Australia), H. Muramatsu and T. Muramatsu (Kagoshima, Japan), R. J. Simpson, A. W. Burgess and E. C. Nice (Melbourne, Australia)	213
Analytical technique for studying the structure of glycoprotein N-glycans by C. Schaumann, F. Oesch, K. K. Unger and R. J. Wieser (Mainz, Germany)	227
Comparison of two commercially available systems for the electrophoretic separation of alkaline phosphatase isoenzymes by V. O. Van Hoof, M. Van Mullem, M. E. De Broe and L. G. Lepoutre (Edegem, Belgium)	235
Quantitative aspects of the application of capillary electrophoresis to the analysis of pharmaceuticals and drug related impurities by K. D. Altria (Herts., UK) (Received May 12th, 1993)	245
Enzyme-based high-performance liquid chromatography stationary phases as metabolic reactors. Immobilization of non-solubilized rat liver microsomes on an immobilized artificial membrane high-performance liquid chromatography support by T. Alebić-Kolbah and I. W. Wainer (Montreal, Canada)	289
Study of lectin–ganglioside interactions by high-performance liquid affinity chromatography by M. Caron and R. Joubert-Caron (Bobigny, France), J. R. Cartier (Marcy l’Etoile, France) and A. Chadli and D. Bladier (Bobigny, France)	327
Micellar electrokinetic capillary chromatography of haematoporphyrin, protoporphyrin and their copper and zinc complexes by C. Kiyohara, K. Saitoh and N. Suzuki (Miyagi, Japan)	397
High-performance liquid chromatographic method for the monitoring of the synthesis of the precursor for tetramisole by J. S. Wagh, A. A. Mokashi and A. Datta (Maharashtra, India)	428