

CHROMATOGRAPHIA

An International Journal
for Rapid Communication in
Chromatography, Electrophoresis,
and Associated Techniques

Scientific Editors

E. R. Adlard, Burton, UK

T. A. Berger, Englewood, FL, USA

H. Lingeman, Amsterdam, The Netherlands

G. Massolini, Pavia, Italy

G. K. E. Scriba, Jena, Germany

R. M. Smith, Loughborough, UK

Chromatographia

An International Journal for Rapid Communication in Chromatography,
Electrophoresis, and Associated Techniques

Volume 73 · Numbers 11–12 · June 2011

ORIGINALS

Column Liquid Chromatography

Enantioseparation Using Chitosan

Tris(3-chlorophenylcarbamate)

as a Chiral Stationary Phase for HPLC

X. Han · L. An · H. Cui · H. Li · W. Liu 1043

Enantioseparation of Hydrobenzoin and Structurally Related Compounds on β -Cyclodextrin and Hydroxypropyl- β -cyclodextrin Bonded Chiral Stationary Phases

G. Yu · L. Guo · F. Xie · B. Yao · Q. Zeng · W. Weng 1049

Temperature-Induced Ionic Liquids Dispersive Liquid- Liquid Microextraction of Tetracycline Antibiotics in Environmental Water Samples Assisted by Complexation

D. Hou · Y. Guan · X. Di 1057

Development of a Stationary Phase of Vascular Smooth Muscle Cell Membrane Chromatography and Its Chromatographic Affinity Characteristics

X. Yang · Y. Zhang · X. Zhang · R. Chang · X. Li 1065

Determination of SYUIQ-F5, a Novel Telomerase Inhibitor and Anti-tumor Lead-Compound, in Tissues and Plasma Samples by LC-MS-MS: Application to a Tissue Distribution Study in Rat

H. Xiong · H. Bi · Y. Wen · J. Hu · G. Zhong · T. Ou ·
Z. Huang · R. Liao · M. Zhao · X. Qin · M. Huang 1073

Determination of Quinine and Doxycycline in Rat Plasma by LC-MS-MS: Application to a Pharmacokinetic Study

L. Brum Junior · M.G. Leal · F. de Toni Uchoa ·
M. Kaiser · S.S. Guterres · T. Dalla Costa 1081

LC-MS-MS Quantitative Determination of Brivudine in Human Plasma and Its Application to Pharmacokinetic Studies

X.-D. Peng · Z.-R. Tan · H.-Z. Wu · G. Zhou · C.-X. Guo ·
Q. Pei · S. Cao · X.-G. Meng · Y.-C. Wang · Y. Chen ·
D. Guo · L. Fan · W. Zhang · H.-H. Zhou 1089

Determination of Tetrandrine in Rat Whole Blood by RP-LC and Its Application to Pharmacokinetic Studies

Y. Zhang · L. Wang · H. Zhang · X. Jiang · Q. Du 1097

Determination of 20(R)-25-Methoxyl-dammarane- 3,12,20-triol and Its Active Metabolite in Beagle Dog Plasma by LC-MS-MS and Its Application to Pharmacokinetics Studies

X. Liu · Y. Liu · X. Di · X. Wang · C. Zhang ·
C. Liu 1105

Elucidation of the Structures of Metabolites of Picoside II in Rat Bile by LC-ESI-IT-MS

T. Li · Q. Yu · D. Han · Y. Zhao · D. Zhao · H. Ji ·
X. Chen · N. Li · Z. Qiu · Y. Zheng 1111

Simultaneous Qualitative Analysis of Coumarins in the Rhizome of *Angelica polymorpha* Maxim. by LC-DAD-ESI-MS

N. Liu · N.J. Yu · J. Li · Y. Yang · J.F. Guo ·
Y.M. Zhao 1121

RP-LC Determination of Residual Monomers in Polycarboxylate Superplasticizers

J. Lei · X. Du · A. Zhang · H. Wu 1131

Electrophoresis

Intercompany Study to Evaluate the Robustness of Capillary Isoelectric Focusing Technology for the Analysis of Monoclonal Antibodies

O. Salas-Solano · K. Babu · S.S. Park · X. Zhang ·
L. Zhang · Z. Sosic · B. Boumajny · M. Zeng ·
K.-C. Cheng · A. Reed-Bogan · S. Cummins-Bitz ·
D.A. Michels · M. Parker · P. Bonasia · M. Hong ·
S. Cook · M. Ruesch · D. Lamb · D. Bolyan ·
S. Kiessig · D. Allender · B. Nunnally 1137

CZE with On-line Micellar Sample Stacking for Determination of Protein Concentration of Biopharmaceuticals

M.A. Al-Ghobashy · M.A.K. Williams · G. Laible ·
D.R.K. Harding 1145

Gas Chromatography

Detection of Nandrolone and Boldenone Abuse in the Ovine by GC-MS-MS

A. Clarke · J.P. Scarth · J. Hands · P. Teale · A.C. Mill ·
R. Macarthur · J. Kay 1155

FULL SHORT COMMUNICATIONS

Column Liquid Chromatography

Determination of pK_a Values of Cefdinir and Cefixime by LC and Spectrophotometric Methods and Their Analysis in Pharmaceutical Dosage Forms

N. Sanli · S. Sanli · U. Sızır · M. Gumustas · S.A. Ozkan 1171

Simultaneous Determination of Pregabalin, Sildenafil and Its Active Metabolite in Rat Plasma Utilising SPE Followed by LC-MS-MS

P. Dzygiel · D. Fraier 1177

LC-MS-MS Method for Quantification of Hydralazine in BALB/C Mouse Plasma and Brain: Application to Pharmacokinetic Study

Y. Liu · H. Li · H. Luo · Z. Lin · W. Luo 1183

Ocular Pharmacokinetic Study of L-Carnosine and N-Acetyl-L-carnosine in Rabbit by Microdialysis Coupled with UPLC-MS-MS

D. Su · Y. Song · L. Geng · B. Wei · P. Xie · Y. Qi · C. Ma · S. Yang · K. Bi · X. Chen 1189

Simultaneous Determination of Pethidine and Atropine in Rabbit Plasma by LC-MS-MS and Its Application to a Pharmacokinetic Study after Intramuscular Administration

C. Chen · J. Deng · S. Wang · J. Zhu · M. Lu · H. He · Y. Fu · X. Wang · J. Ma 1197

Rapid, Sensitive and Selective Analysis of *trans*-Resveratrol in Rat Plasma by LC-MS-MS

M. Su · B. Di · T. Hang · J. Wang · D. Yang · T. Wang · R. Meng 1203

Immunoaffinity-Based Solid Phase Extraction for the Determination of Melamine in Animal-Derived Foods Followed by LC

Y.B. Zhong · L.J. Zhang · H.C. Zhang · J.X. Liu · J.P. Wang 1211

Electrophoresis

Simultaneous Determination of Benzoic Acid and Sorbic Acid in Food Products by CE after On-line Preconcentration by Dynamic pH Junction

X. Zhang · S. Xu · Y. Sun · Y. Wang · C. Wang 1217

Simultaneous Determination of Strychnine, Brucine, Strychnine N-Oxide and Brucine N-Oxide in Crude and Fermented Nux Vomica by CZE with Ephedrine Hydrochloride as an Internal Standard

G. Yang · Y. Pan · L. Liu · Y. Jiang 1223

LIMITED SHORT COMMUNICATIONS

Gas Chromatography

An Injection Cannula that Enhances the Versatility of Split-Splitless Inlets

P. Apps · L. Mmualefe 1229

Determination of 1,4-Dioxane in Water by Isotopic Dilution Headspace GC-MS

H.-S. Shin · H.-H. Lim 1233

BOOK REVIEWS

Christopher Corti and Richard Holliday (Eds): Gold: Science and Applications

E.R. Adlard 1237

Tibor Cserháti: Chromatography of Aroma Compounds and Fragrances

E.R. Adlard 1239

Riccardo Flamini and Pietro Traldi (Eds): Mass Spectrometry in Grape and Wine Chemistry

P. Myers 1241

Calendar of Events A5

Further articles can be found at www.springerlink.com

Abstracted/Indexed in *Academic OneFile*, *AGRICOLA*, *Analytical Abstracts*, *ASFA*, *CAB Abstracts*, *CAB International*, *CAS*, *Chemical Abstracts Service (CAS)*, *ChemWeb*, *Chimica*, *Elsevier Biobase*, *EMBASE*, *Food Science and Technology Abstracts*, *Gale*, *GeoRef*, *Global Health*, *Google Scholar*, *IBIDS*, *INIS Atomindex*, *International Bibliography of Periodical Literature (IBZ)*, *Mass Spectrometry Bulletin*, *OCLC*, *PASCAL*, *Proquest*, *SCOPUS*, *Summon by Serial Solutions*, *VINITI - Russian Academy of Science*

Instructions for Authors for *Chromatographia* are available at www.springer.com/10337