

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 74 · Numbers 1–2 · July 2011

ORIGINALS

Column Liquid Chromatography

Preparation and Evaluation of Long Chain Alkyl Methacrylate Monoliths for Capillary Chromatography

Z.A. ALOthman · A. Aqel · H.A. Al Abdelmoneim · A. Yacine Badjah-Hadj-Ahmed · A.A. Al-Warthan 1

High-Efficiency Liquid Chromatography Using Sub-2 µm Columns at Elevated Temperature for the Analysis of Sulfonamides in Wastewater

H. Shaaban · T. Górecki 9

Comparison of LC Columns Packed with 2.6 µm Core-Shell and Sub-2 µm Porous Particles for Gradient Separation of Antibiotics

T. Tylová · Z. Kameník · M. Flieger · J. Olšovská 19

Qualitative and Quantitative Analysis of 17 Different Types of Tetra- and Pentacyclic Triterpenic Acids in *Boswellia papyrifera* by a Semi-Automatic Homomodal 2D HPLC method

M. Paul · G. Brüning · J. Wehrather · J. Jauch 29

LC-MS-MS Quantitative Determination of Gefitinib in Human Serum and Cerebrospinal Fluid

X. Zheng · P. Hu · J. Liu · Q. Zhao · M. Wang · J. Jiang · W. Zhong 41

An LC-ESI-MS-MS Method for Quantification of Tenofovir Octadecyloxyethyl Ester in Rat Plasma and Its Application to a Pharmacokinetic Study

M. Liu · J. Guo · H. Yi · H. Li · Z. Li · C. Zhao 51

Determination of Imidol in Rat Plasma by UPLC-MS-MS and Its Application in a Pharmacokinetic Study

Z.-B. Liu · Q. Li · W. Li · X.-W. Song · G.-P. Rong · Y.-F. Zhao · P. Gong · K.-S. Bi · X.-H. Chen 59

Clinic Pharmacokinetic Profiles of Huperzine A Following Transdermal Administration to Healthy Human Volunteers

T. Wu · C.-Y. Li · M. Chen · J. Zhang · H.-S. Tan · C. Yang · W.-Z. Ju 67

Simultaneous Quantification of Oroxylin A and Its Metabolite Oroxylin A-7-O-Glucuronide: Application to a Pharmacokinetic Study in Rat

W. Liu · X. Xu · F. Feng · C. Wu 75

Gas Chromatography

Determination of Trace Chloroanilines in Environmental Water Samples Using Hollow Fiber-Based Liquid Phase Microextraction

A. Young · G. Lai · B. Hung · A. Yuen · Y. He 83

Ultrasound-Assisted Dispersive Liquid-Liquid Microextraction Combined with Low Solvent Consumption for Determination of Polycyclic Aromatic Hydrocarbons in Seawater by GC-MS

X. Song · J. Li · C. Liao · L. Chen 89

Determination of Polycyclic Aromatic Hydrocarbons in Vegetables by Headspace SPME-GC

F.-F. Lei · J.-Y. Huang · X.-N. Zhang · X.-J. Liu · X.-J. Li 99

Multiresidue Method for the Determination of Pesticides in Fruits and Vegetables Using Gas Chromatography-Negative Chemical Ionization-Triple Quadrupole Tandem Mass Spectrometry

J. Dong · Y.-X. Pan · J.-X. Lv · J. Sun · X.-M. Gong · K. li 109

A Comparative Evaluation of Nitrogen Compounds in Petroleum Distillates

D. Singh · A. Chopra · M.B. Patel · A.S. Sarpal 121

FULL SHORT COMMUNICATIONS

Column Liquid Chromatography

Binding Interaction between Nicotine and Human Serum Albumin by High Performance Affinity Chromatography

X. Xiong · Y. Nan · Q. Zhang 127

LC-MS-MS Determination of Gizzerosine in Poultry Feed

S. Uhlig · M. Kaldhusdal · A.-G. Gjevre 133

Ionic Liquid-Based Ultrasonic/Microwave-Assisted Extraction Combined with UPLC for the Determination of Anthraquinones in Rhubarb
C. Lu · H. Wang · W. Lv · C. Ma · P. Xu · J. Zhu · J. Xie · B. Liu · Q. Zhou 139

LC Determination of Thiols Derivatized with 4-(Aminosulfonyl)-7-fluoro-2,1,3-benzoxadiazole after SPE
K.-J. Huang · C.-H. Han · J. Li · Z.-W. Wu · Y.-M. Liu · Y.-Y. Wu 145

Electrokinetic Chromatography

MEKC Determination of Nilutamide in Human Serum Using Sweeping in High Salt Sample Matrix
J. Znaleziona · V. Maier · J. Petr · J. Chrastina · J. Ševčík 151

Gas Chromatography

Quantitative Prediction of Ionic Liquid-Gas Partition Coefficients for Residual Solvents by HS-GC
X. He · Y. Jiang · L. Lei · J. Li · M. Ni 157

Comparison of SPE-TD-GC-FID with UPLC-PDA and GC-MS Methods for Analysis of Benzene, Toluene and Xylene Isomers in Solid-Liquid Mixing Paints
S. Zhang · T. Zhao · H. Wang · J. Wang 163

BOOK REVIEWS

Thomas J. Bruno and Paris D. N. Svoronos (Eds): Handbook of Basic Tables for Chemical Analysis, 3rd Edition
E.R. Adlard 171

Alain Berthod (Ed.): Chiral Recognition in Separation Methods. Mechanisms and Applications
C.F. Poole 173

Pavel N. Nesterenko, Phil Jones und Brett Paull: High Performance Chelation Ion Chromatography
C.F. Poole 175

ERRATUM

Erratum to: Simultaneous Qualitative Analysis of Coumarins in the Rhizome of *Angelica polymorpha* Maxim. by LC-DAD-ESI-MS
N. Liu · N. Yu · J. Li · Y. Yang · J. Guo · Y. Zhao 177

Calendar of Events A5

Further articles can be found at www.springerlink.com

Abstracted/Index 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