

Vol. 72, No. 5/6

CHROMATOGRAPHIA

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

September 10

CHRGB7 373–590 (2010)

Scientific Editors

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

Technical Editors

E. R. Adlard
Burton, UK
K. D. Altria
Harlow, UK
S. Brandt
Liverpool, UK
I. W. Davies
Cambridge, UK

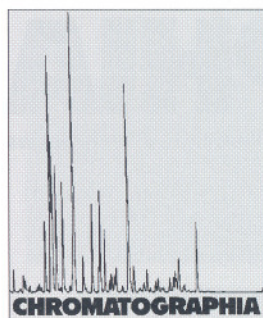
Publisher

R. Birkelbach
Wiesbaden
Germany

www.chromatographia.com



CHROMATOGRAPHIA



Contents

Vol. 72, 2010, September (No. 5/6)

Editorial

75th Birthday of Professor Karel Cramers 373

Originals

Column Liquid Chromatography

Applicability of Parallel μ LC for Achiral Method Development and Impurity Profiling in Support of Pharmaceutical Early Development
Haojing Rong, Yining Zhao, Angel R. Diaz, Gang Xue 375

Adsorption Strategy of Plasmid DNA Nanoparticle: Preparative Purification by a Simple Custom Expanded Bed Column
M. Ebrahimpour, M. Jahanshahi, A. H. Hosenian 383

Headspace Single Drop Microextraction Using Micellar Ionic Liquid Extraction Solvents
Cong Yao, Pamela Twu, J. L. Anderson 393

Multiwalled Carbon Nanotubes as SPE Adsorbents for Simultaneous Determination of Seven Sulfonylurea Herbicides in Environmental Water by LC-MS-MS
Guozhen Fang, Xuenan Wang, Shuo Wang 403

An LC-MS-MS Method for the Determination of Perfluorinated Surfactants in Environmental Matrices
Jiangyong Hu, Jing Yu 411

Rapid Determination of Simple Polyphenols in Grapes by LC Using a Monolithic Column
A. Liiazid, G. F. Barbero, M. Palma, J. Brigui, C. G. Barroso 417

An LC-MS Method for a Hexokinase Inhibitor Study Based on Adenosine 5'-Triphosphate Determination and Application to the Anticancer Mechanism of *Momordica cochinchinensis*
Le Pan, Yunqiu Yu, Longwei Sun 425

Global Chemome Study by LC Coupled with DAD and ESI-Q-TOF MS of a Composite Traditional Chinese Medicine Qishenyiqi Dropping Pills
Jing Wang, Na Wei, Hongzhi Zhao, Hao Huang, Min Jiang, Gang Bai, Guoan Luo 431

A Stability Indicating LC Method for Deferasirox in Bulk Drugs and Pharmaceutical Dosage Forms
R. K. Kaja, K. V. Surendranath, P. Radhakrishnanand, J. Satish, P. V. V. Satyanarayana 441

LC-ED with an Acetylene Black-Dihexadecyl Hydrogen Phosphate Composite Film-Modified Electrode for in Vivo Analysis of Thiols in Rat Striatal Microdialysate
Li Lin, Hongchang Gao, Dan Lin, MiaoMiao Gao, Min Xiao, Shulin Yang, Xiaokun Li 447

Determination of Trace Amounts of Chlorogenic Acid and Three of Its Metabolites Using Time-Resolved LPME and LC-UV Detection in Biological Specimens
Jing Wang, Shuang Hu, Xiaohong Bai 453

LC and LC-MS Study of the Bioavailability and Metabolites of TM208 after Oral and Intravenous Administration to Rat
Jiao Wang, Yan Song, Jianmei Zhang, Xiaona Li, Xiaomei Ling, Runtao Li, Jingrong Cui 459

Determination of Poricoic Acid A in Rat Plasma after Oral and Intravenous Administration by LC-MS-MS and Its Application to a Pharmacokinetic Study
Lian-Hong Yin, Li-Na Xu, Xu Han, You-Wei Xu, Yan Qi, Jin-Yong Peng 465

Using SEC for Analyzing the Sizes of Au/Pt Core/Shell Nanoparticles
Fu-Ken Liu 473

Electrophoresis and Electrochromatography

Novel Methods for Controlling the Current During Isoelectric Focusing
C. L. Naydenov, E. P. Kirazov, V. S. Lozanov, L. P. Kirazov, V. I. Mitev 481

Enantiomeric Separation of Nefopam Hydrochloride by Affinity Electrokinetic Chromatography Using Chondroitin Sulfate A as Chiral Selector and Its Chiral Recognition Mechanism
Fan Yang, Yingxiang Du, Bin Chen, Qingfeng Fan, Guangfu Xu 489

Determination of Octanol-Water Partition Coefficients by MEEKC Based on Peak-Shift Assay
Zhining Xia, Jing Yang, Lixian Li, Fengqing Yang, Xuemei Jiang 495

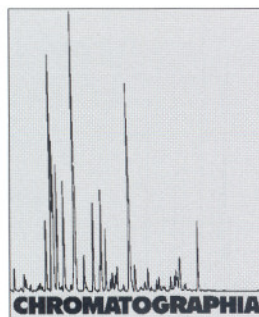
CZE and ESI-MS of Borate-Sugar Complexes
J. P. Quirino 503

Gas Chromatography

Retention Indices of 55 Solutes Belonging to Eight Monofunctional Groups Homologous Series on 14 Chromatographic Capillary Columns
J. M. Santiuste, R. Lebrón-Aguilar, J. E. Quintanilla-López 511

Contents

Vol. 72, 2010, September (No. 5/6)



	Semi-Empirical Topological Method for Prediction of the Relative Retention Time of Polychlorinated Biphenyl Congeners on 18 Different HR GC Columns R. Ghavami, S. M. Sajadi	523
	PLE and GC-MS Determination of Polybrominated Diphenyl Ethers in Soils Zulin Zhang, M. Shanmugam, S. M. Rhind	535
<i>Thin Layer Chromatography</i>	RP-TLC Quantitative Retention-Property Relationships Studies of Some Schiff Base Ligands and Their Complexes R. Baošić, A. Radojević, T. Tripković, N. Aburas, Ž. Tešić	545
Full Short Communications		
<i>Column Liquid Chromatography</i>	Simultaneous Determination of Deoxynivalenol and Nivalenol in Traditional Chinese Medicine by SPE and LC Yan-Tao Yue, Xiao-Fei Zhang, Mei-Hua Yang, Zhen Ou-Yang, Hong-Bing Liu	551
	LC-MS Estimation of Fenofibric Acid in Microvolumes of Human Plasma and Its Application to Bioequivalence Study V. Munjal, N. Paliwal, B. Varshney, B. K. Chaurasia, J. Paliwal	557
<i>Gas Chromatography</i>	QSRR Models to Predict Retention Indices of Cyclic Compounds of Essential Oils H. Noorizadeh, A. Farmany	563
	Determination of Ethyl Carbamate in Fermented Foods by GC-HRMS Stephen Wai-Cheung Chung, Ka Ping Kwong, Benedict Ling-Sze Chen	571
Limited Short Communications		
<i>Column Liquid Chromatography</i>	Tissues Distribution Study of <i>p</i> -Hydroxyphenethyl Anisate in Rat after Intragastrical Administration Assessed by RP-LC You-Bo Zhang, Xiu-Wei Yang	577
<i>Gas Chromatography</i>	GC-ECD Determination of Lindane and Its Impurity α -HCH in Pharmaceutical Products Z. Vujić, S. Matić, V. Kuntić, S. Vladimirov, S. Uskoković-Marković	581
Book Reviews		
	Bioelectrochemistry: Fundamentals, Experimental Techniques and Applications; P. N. Bartlett D. Arrigan	585
	Polymers: A Property Database; B. Ellis, R. Smith S. Holding	587
	Tree Nuts: Composition, Phytochemicals, and Health Effects; C. Alasalvar, F. Shahidi R. J. Hamilton	589
Calendar of Events		A7
Instructions to Authors		A9

Purchasing Information. Einkaufsnachweis

Chromatographs Liquid

Chromatography, HPLC-Systems

Detectors for Liquid

Wissenschaftlicher Gerätebau
Dr.-Ing. H. Knauer GmbH
Hegauer Weg 38
D-14163 Berlin
Tel. 030 / 809 727-0
Fax 030 / 801 50 10