

Vol. 72, No. 7/8

# CHROMATOGRAPHIA

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

## October 10

CHRGB7 591-778 (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

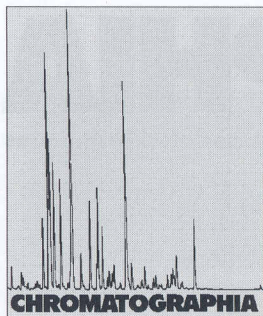
### Publisher

R. Birkelbach  
Wiesbaden  
Germany

[www.chromatographia.com](http://www.chromatographia.com)



# CHROMATOGRAPHIA



# Contents

## Vol. 72, 2010, October (No. 7/8)

### Editorials

Celebrating the 70th Birthday of Professor Shigeru Terabe <b>K. Otsuka, N. Tanaka</b>	591
Karl-Siegfried Boos to Retire as an Editor of Chromatographia <b>H. Lingeman</b>	593
Advances in Separation Sciences <b>G. Scriba</b>	595

### Originals

#### Column Liquid Chromatography

Demonstration of High Speeds with Low Pressure Drops Using 1.8 $\mu\text{m}$ Particles in SFC <b>T. A. Berger</b>	597
The Clever Use of Pressure in Column Liquid Chromatography <b>V. R. Meyer</b>	603
Polymeric Functionalized Stationary Phase for Separation of Ionic Compounds by IC <b>M. Jaćkowska, S. Bocian, P. Kosobucki, B. Buszewski</b>	611
Preparation and Characterization of a Microwave-Immobilized Fluorinated Stationary Phase for RP-LC <b>L. Maldaner, I. C. S. F. Jardim</b>	617
Simultaneous Determination of Levodopa, Benserazide and 3- <i>O</i> -Methyldopa in Human Serum by LC-MS-MS <b>Le Pan, Yanping Guo, Zhongdong Li, Jun Chen, Tian Jiang, Yunqiu Yu</b>	627
Establishment of a High Expression of $\alpha_{1A}$ Adrenergic Receptor Cell Membrane Chromatography-RPLC Method for Screening Target Components from <i>Radix Caulophylli</i> <b>Xiaofang Hou, Jing Ren, Sicen Wang, Langchong He</b>	635
LC-Fluorescence Detection Analysis of Amino Acids from <i>Stellera chamaejasme</i> L. Using 2-[2-(Dibenzocarbazole)-ethoxy] Ethyl Chloroformate as Labeling Reagent <b>Zhiwei Sun, Jinmao You, Cuihua Song</b>	641
Chemical Characterization of Phenolic Compounds in Erigeron Injection by Rapid-Resolution LC Coupled with Multi-Stage and Quadrupole-TOF-MS <b>Yufeng Zhang, Qinqin Zhao, Jinfei Ma, Bin Wu, Xing Zeng</b>	651
LC-ESI-MS Determination of Phospholipids and Lysophospholipids <b>S. Wagner, E. Richling</b>	659
LC-UV Column-Switching for Quantitation of Vitamin K <sub>1</sub> in Infant Formula <b>Jinhyouk Ko, Byung-Man Kwak, Jang-Hyuk Ahn, Seung-Hwan Jeong, Sung-Lye Shim, Kyong-Su Kim, Taehyung Yoon, Leem Dong-gil, Jayoung Jeong</b>	665

#### Electrokinetic Chromatography

Application of DLLME to Isolation and Concentration of Non-Steroidal Anti-Inflammatory Drugs in Environmental Water Samples <b>A. Zgoła-Grzeškowiak</b>	671
--	-----

#### Gas Chromatography

Determination of Glyphosate and Aminomethylphosphonic Acid in Water by LC Using a New Labeling Reagent, 4-Methoxybenzenesulfonyl Fluoride <b>Yujie Sun, Chengyin Wang, Qunyin Wen, Guoxiu Wang, Honghai Wang, Qishu Qu, Xiaoya Hu</b>	679
Rapid Determination of Water-Soluble and Fat-Soluble Vitamins in Commercial Formulations by MEEKC <b>M. S. Aurora-Prado, C. A. Silva, M. F. M. Tavares, K. D. Altria</b>	687
Application of DLLME Based on the Solidification of Floating Organic Droplets for the Determination of Dinitrobenzenes in Aqueous Samples <b>Yanlin Wu, Liping Dai, Jing Cheng, Feng Guo, Junkai Li</b>	695
Simultaneous Analysis of Herbicide Metribuzin and Quizalofop- <i>p</i> -ethyl Residues in Potato and Soil by GC-ECD <b>Jiye Hu, Zhuo Deng, Chang Liu, Zhixin Zheng</b>	701

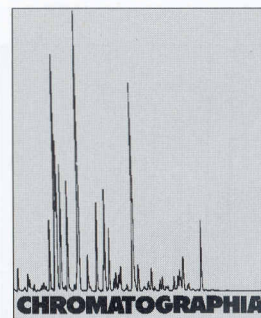
### Full Short Communications

#### Column Liquid Chromatography

Methyl Methacrylate-Ethylene glycol Dimethacrylate-Acrylic Acid Surface as Stationary Phase for Stir Bar Sorptive Extraction <b>Z. Talebpour, M. Safari, F. Molaabaci, A. Alizadeh, H. Y. Aboul-Enein</b>	707
Lignan Extraction from the Roots of <i>Sinopodophyllum emodi</i> Wall by Matrix Solid-Phase Dispersion <b>Xiaolei Shi, Xuwen Li, Jingbo Liu, Hongyu Zhou, Hanqi Zhang, Yongri Jin</b>	713
Infrared-Assisted Extraction of Adenosine from <i>Radix Isatidis</i> Using Orthogonal Experimental Design and LC <b>Wei Zhou, Xiaoyan Zhang, Meifen Xie, Yile Chen, Yan Li, Gengli Duan</b>	719

# Contents

## Vol. 72, 2010, October (No. 7/8)



Concentration of Components in Danggui-Buxue Decoction by Macroporous Resin Chromatography Guided with LC Xinrong Dong, Yizeng Liang, Bing Wang	725
Determination of Azithromycin in Biological Samples by LLLME Combined with LC H. Ebrahimzadeh, Y. Yamini, K. M. Ara, F. Kamarei, F. Khalighi-Sigaroodi	731
Determination of Cinepazide Maleate in Rat Plasma by LLE Using LC-MS-MS Guanyang Lin, Jiayin Zhu, Lufeng Hu, Xuebao Wang, Xuezi Yang, Xianqin Wang	737
LC-APCI-MS Simultaneous Determination of Barbitol, Amobarbital, Phenobarbital and Secobarbital in Human Plasma Faqing Ye, Jianchun Pan, Guoxin Hu, Dan Lin, Jiayin Zhu, Xianqin Wang	743
UPLC Analysis of Mycophenolic Acid and Its Phenol and Acyl Glucuronide Metabolites in Human Plasma Dong Guo, Lin-Yong Xu, Liang-Fang Pang, Zhi-Rong Tan, Yang Han, Hong Yang, Gan Zhou, Yao Chen, Dong-Sheng Ouyang, Hong-Hao Zhou	747
SPE and LC for Analysis of the Tissue Distribution of Wogonin and Its Metabolite in Tumor-Bearing Nude Mice Wenyuan Liu, Xiaojing Yang, Feng Feng, Chunyong Wu, Li Ding	753

### Limited Short Communications

#### Column Liquid Chromatography

LC-ECD Quantification of Stattec in Serum A. Paulke, B. Brill, M. Schubert-Zsilavec, M. Wurglics	759
Determination of Chlorantranilprole in Vegetables, Fruits and Grains by SPE Clean-Up and LC-UV Pengjun Xu, Yue Ren, Zhiguang Zhou, Aimin Liu, Hongyan Zhang	763

#### Letters to the Editors

Quantification of Circulating Asymmetric Dimethylarginine (ADMA) in Humans: Consideration of Reference Intervals and Inter-Individual Variability in Method Validation D. Tsikas	767
Reply to the Letter to the Editors: Quantification of Circulating Asymmetric Dimethylarginine (ADMA) in Humans: Consideration of Reference Intervals and Inter-Individual Variability in Method Validation. Dimitrios Tsikas Hongyun Wang	771

#### Book Reviews

Advances in Chromatography, Volume 47; N. Grindberg, E. Grushka P. A. Sewell	773
A Practical Guide to Scientific Data Analysis; D. Livingstone R. Edwards	775

#### Erratum

Erratum to: PLE and GC-MS Determination of Polybrominated Diphenyl Ethers in Soils Z. Zhang, M. Shanmugam, S. M. Rhind	777
---	-----

#### 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