

Vol. 71, No. 7/8

# CHROMATOGRAPHIA

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

## April 10

CHRGB7 557-744 (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

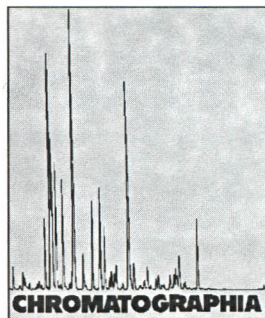
### Publisher

R. Birkelbach  
Wiesbaden  
Germany

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



# CHROMATOGRAPHIA



# Contents

## Vol. 71, 2010, April (No. 7/8)

### Editorial

- 60th Birthday of Professor Colin F. Poole 557  
I. Wilson

### Originals

#### Column Liquid Chromatography

- Characterization of Convection for Molecularly Imprinted Monolith 559  
Yan-Ping Huang, Shu-Jing Zhang, Liang Zhao, Qin-Wei Zhang, Zhao-Sheng Liu
- Combined Effect of Temperature and Ternary Mobile Phase Composition on the Retention in Ternary Isocratic and Gradient Elution RP-LC Under Isothermal Conditions. Application to the Retention Prediction of Four Macrolide Antibiotics 571  
A. Pappa-Louisi, P. Agrafiotou, D. Thomas, K. Papachristos
- Optimization and Validation of RP-LC/UV-VIS Detection Method for Simultaneous Determination of Fat-Soluble Anti-Oxidant Vitamins, *all-trans*-Retinol and  $\alpha$ -Tocopherol in Human Serum: Effect of Experimental Parameters 577  
M. I. Khan, A. Khan, Z. Iqbal, L. Ahmad, Y. Shah
- A New LC-MS-MS Method for Quantitative Analysis of Adefovir, and Its Use for Pharmacokinetic Studies in Healthy Chinese Volunteers 587  
Hai-Tang Xie, Guang-Ji Wang, Mei-Juan Xu, Yuan-Wei Jia, Hao Li, Jian-Guo Sun, Peng Li
- Simultaneous Separation and Determination of Isosorbide Dinitrate and Isosorbide 5-Mononitrate in Human Plasma by LC-MS-MS 595  
H. Kim, J.-Y. Lee, K.-S. Song, Y.-H. Seo, S.-Y. Park, K.-H. Kim, H. D. Je, S. B. Han, J. H. Jeong
- Enantioselective Separation and Determination of Carnosine in Rat Plasma by Fluorescence LC for Stereoselective Pharmacokinetic Studies 603  
Dan Su, Kaishun Bi, Chunling Zhou, Yonggui Song, Binbin Wei, Lulu Geng, Wentao Liu, Xiaohui Chen
- Comparative Pharmacokinetics Profile of Vasa Swaras with Vasicine and Vasicinone 609  
R. P. Dash, B. F. Chauhan, S. Anandjiwala, M. Nivsarkar
- Simultaneous Determination of Lathyrane Diterpenoids by NPLC-DAD in the Seeds of *Euphorbia lathyris* and "ZI-JIN-DING" Pastille 617  
Hong-Yan Zhu, Xiang-Ying Meng, Yong-Li Bao, Chun-Lei Yu, Yin Wu, Yu-Xin Li
- Determination of Free Fatty Acids in Tibet Folk Medicine *Potentilla anserina* L. Using a New Labeling Reagent by LC with Fluorescence Detection and Identification with Online Atmospheric Chemical Ionization-MS Identification 623  
Lian Xia, Cuihua Song, Zhiwei Sun, Guoliang Li, Yourui Suo, Jinmao You
- Simultaneous Determination of Ten Sugars in *Tinospora cordifolia* by Ultrasonic Assisted Extraction and LC-ELSD 633  
U. Sharma, P. Bhandari, N. Kumar, B. Singh
- Use of Surfactant as Mobile Phase Additive in LC for Simultaneous Determination of Metal-Pyrrolidine Dithiocarbamate Chelates 639  
N. Butwong, R. Burakham, S. Srijaranai
- Simple and Simultaneous Determination of Free Chlorine, Free Bromine and Ozone in Water by LC 647  
H.-S. Shin

#### Electrophoresis/Electrochromatography

- Determination of Folic Acid by CE in Various Cultivated Variety of Lentils 653  
U. D. Uysal, E. M. Oncu-Kaya, M. Tunçel
- Off-Column Amperometric Detection for Pressurized Capillary Electrochromatography 659  
Shaofeng Liu, Xucong Lin, Xue Zhang, Haixia Lü, Zenghong Xie
- An Integrated Approach Based on Experimental Designs for Fingerprint Development of the Complex Herbal Prescription Sheng-Mai-San by MEKC 667  
Xiao-Mei Fan, Yi-Bing Ji, Da-Ni Zhu

#### Gas Chromatography

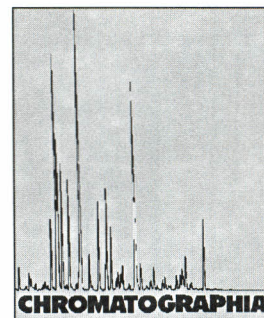
- Simultaneous Analysis of Hexaconazole, Myclobutanol, and Tebuconazole Residues in Apples and Soil by SPE Clean-Up and GC with Nitrogen-Phosphorus Detection 679  
Zhubo Deng, Jiye Hu, Dongmei Qin, Hui Li

#### Thin Layer Chromatography

- Structure and Substituent Effects on Retention and Chiral Resolution of Ketones and Alcohols on Microcrystalline Cellulose Triacetate Plates 685  
L. Lepri, A. Cincinelli, L. Checchini, M. Del Bubba

# Contents

## Vol. 71, 2010, April (No. 7/8)



### Full Short Communications

#### Column Liquid Chromatography

- A New Efficient Analytical Method for Picolinate Ion Measurements in Complex Aqueous Solutions  
**M. Parazols, A. Dodi** 695
- Quantitative Characterization of Bovine Serum Albumin,  $\alpha$ -Lactalbumin and  $\beta$ -Lactoglobulin in Commercial Whey Sample by RP-LC  
**G. Mukhopadhyay, J. Khanam, A. Nanda, A. B. Sarkar** 699
- Simultaneous Determination of Six Phenolic Compounds in Jujube by LC-ECD  
**Bi-Ni Wang, Wei Cao, Hui Gao, Ming-Tao Fan, Jian-Bin Zheng** 703
- Determination of Pirfenidone in Rat Plasma by LC-MS-MS and Its Application to a Pharmacokinetic Study  
**Shuhua Tong, Xianqin Wang, Haiyan Jiang, Xuegu Xu, Yibin Pan, Kunming Chen, Jiao Wu, Qiaoqiao Xu, Jie Deng, Guoxin Hu** 709

#### Electrophoresis

- Investigations on the Influence of Interface-Geometry in CE-ESI-TOF-MS  
**S. M. Reiter, W. Buchberger, C. W. Klampfl** 715
- Fatty Acid Binding Protein of *Toxoplasma gondii*: Isolation and Study of the Biochemical Characteristics  
**S. Azzouz, M. Maache, A. Osuna, M. E. Sarciron, A. F. Petavy** 721

#### Gas Chromatography

- Simultaneous Determination of Free and Esterified Fatty Alcohols, Phytosterols and Solanesol in Tobacco Leaves by GC  
**Yuxin Liu, Guoping Yong, Yingbo Xu, Dongliang Zhu, Hongwu Tong, Shaomin Liu** 727

### Limited Short Communications

#### Gas Chromatography

- A Sensitive and Selective GC-MS Method for Analysis of Process-Related Genotoxic Impurities in Atenolol  
**Y. R. Mamilla, K. R. Chetyala, R. Venna, R. Gajjela, K. Katragadda, S. Govindasamy, S. Mulukutla, D. Datta** 733
- Determination of Four  $\beta_2$ -Agonists in Meat, Liver and Kidney by GC-MS with Dual Internal Standards  
**Lian Wang, Yuan-Qian Li, Yun-Ke Zhou, Yuan Yang** 737

### Book Reviews

- Wiley Guide to Chemical Incompatibilities; R. P. Pohanish, S. A. Greene  
**K. Jones** 741
- Handbook of Vinyl Polymers: Radical Polymerisation, Process and Technology; M. K. Mishra, Y. Yagci  
**S. Holding** 743

### 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