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Smarter Medicine — Better Care

International Conference on Pharmaceutical Sciences

September 24–26, 2026

Siófok – Hungary

KGYSZ SZATELLITA SZIMPÓZIUM

POSTER PROGRAM

The Scientific Committee reserves the right to make changes to the program.

SEPTEMBER 24, THURSDAY

17:30 – 19:00 POSTER AND COFFEE

17:30 – 19:00 PARALLEL SESSIONS

17:30 – 19:00 “MEET THE EXPERTS” INTERACTIVE POSTER SESSION I.

PHARMACEUTICAL TECHNOLOGY AND DRUG DELIVERY I.

Design and Physicochemical Characterization of Calcium Butyrate-Loaded Microemulsion System for Topical Applications

Işıl Özoglu¹, Emre Şefik Çağlar², Neslihan Üstündağ Okur³

¹Department of Radiopharmacy, Faculty of Pharmacy; ²Department of Biotechnology, Faculty of Pharmacy; ³Department of Pharmaceutical Technology, Faculty of Pharmacy, University of Health Sciences, İstanbul, Türkiye

Application of Artificial Intelligence in Pharmaceutical Technology: Prediction, Modeling, and Optimization of Tablet Dissolution Profiles

Júlia Tóth, Gábor Bálint, Krisztina Ferenczi, Ádám Horváth, Sándor Nagy, Aleksandar Széchenyi, Szilárd Pál

Institute of Pharmaceutical Technology and Biopharmacy, Faculty of Pharmacy, University of Pécs, Pécs, Hungary

Formulation, Characterization and in Vitro Evaluation of Moxifloxacin Loaded in Situ Gel for Ocular Drug Delivery

Kerime Naz Ayyıldız¹, Emine Saldamlı², Emre Şefik Çağlar³, Neslihan Üstündağ Okur¹

¹Department of Pharmaceutical Technology, Faculty of Pharmacy, University of Health Sciences, İstanbul, Türkiye ²Department of Pharmaceutical Technology, Faculty of Pharmacy, İstanbul University, İstanbul, Türkiye ³Department of Pharmaceutical Biotechnology, Faculty of Pharmacy, University of Health Sciences, İstanbul, Türkiye



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**Preparation and Characterisation of Levothyroxine-Containing Suppositories:
The Role of Particle Size and Dispersion System on Drug Release**

Krisztina Ferenczi, Barna Kovács, Aleksandar Széchenyi, Sándor Nagy, Szilárd Pál
*Institute of Pharmaceutical Technology and Biopharmacy, Faculty of Pharmacy, University of Pécs,
Pécs, Hungary*

**From Mechanochemistry to Lyophilisation: Preparation-Dependent
Biopharmaceutical Performance of Meloxicam/Cyclodextrin Complexes**

Antonija Milovac¹, Marijana Pocnić², Nives Galić², Mario Jug¹

¹*Department of Pharmaceutical Technology, Faculty of Pharmacy and Biochemistry;*

²*Department of Chemistry, Faculty of Science, University of Zagreb, Zagreb, Croatia*

Liquid Crystalline Nanoparticles:

Evaluation of Encapsulation Efficiency of Different Drugs

Monika Prašnikar, Robert Roškar, Pegi Ahlin Grabnar, Mirjam Gosenca Matjaž
Faculty of Pharmacy, University of Ljubljana, Ljubljana, Slovenia

**Development and Characterization of 3D-Printed Prednisolone Acetate
Tablets: Influence of Formulation and Printing Parameters on Drug Release**

Aleksandra Čoškov¹, Nemanja Todorović¹, Jelena Čanji Panić¹, Milana Vuković¹,
Dušica Bosiljčić², Nataša Milošević¹, Mladena Lalić-Popović¹

¹*Department of Pharmacy, Faculty of Medicine, University of Novi Sad, Novi Sad, Serbia;* ²*Galenic
Laboratory, Pharmacy Institution Benu, Novi Sad, Serbia*

**Development of Thermoresponsive Poloxamer-Based in Situ Gel for Nasal
Delivery of Metronidazole**

Nebojsa Pavlovic, Stefan Ilkic, Dragana Zaklan, Jovana Milutinov, Maja Djanic,
Veljko Krstonosic

Faculty of Medicine, University of Novi Sad, Novi Sad, Serbia

Chitosan coated Liposome for Oral Delivery of Nadolol

Esra İpekci, Emre Şefik Çağlar², Mustafa Sinan Kaynak³, Evren Gündoğdu⁴,
Neslihan Üstündağ Okur

¹*Department of Pharmaceutical Technology, Faculty of Pharmacy;* ²*Department of Biotechnology,
Faculty of Pharmacy, University of Health Sciences, İstanbul, Türkiye;* ³*Department of
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⁴*Department of Radiopharmacy, Faculty of Pharmacy, Ege University, İzmir, Türkiye*



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Design and Fabrication of 3D-Printed Transdermal Patches for Co-Delivery of Hormones and NK3 Inhibitors

Réka Révész^{1,2}, Ádám Haimhoffer²

¹Doctoral School of Pharmaceutical Sciences; ²Department of Pharmaceutical Technology, Faculty of Pharmacy, University of Debrecen, Debrecen, Hungary

17:30 – 19:00 “MEET THE EXPERTS” INTERACTIVE POSTER SESSION II.

PHARMACEUTICAL TECHNOLOGY AND DRUG DELIVERY II.

Investigation of *Centaurium erythraea* Extract-Containing Ointment Formulations for Anti-Inflammatory and Antioxidant Effects

Boglárka Papp^{1,2}, Anett Jolán Karetka^{3,4}, István Lekli⁵, Annamária Pallag³, Fruzsina Szilágyi¹, Ágota Pető^{1,2}, Zoltán Ujhelyi^{2,6}, Ildikó Bácskay^{1,2,7}, Tünde Jurca³, Pálma Fehér^{1,2}

¹Department of Pharmaceutical Technology, Faculty of Pharmacy; ²Doctoral School of Pharmaceutical Sciences; ³Department of Pharmacodynamics, Faculty of Pharmacy; ⁴Department of Pharmaceutical Industry and Pharmaceutical Technology; ⁵Pharmaceutical Ecosystem Center, University of Debrecen, Debrecen, Hungary; ⁶Department of Pharmacy, Faculty of Medicine and Pharmacy; ⁷Doctoral School of Biomedical Sciences, Faculty of Medicine and Pharmacy, University of Oradea, Oradea, Romania

Enhancing Solubility and Bioavailability of Poorly Water-Soluble Drugs in Veterinary Medicine

Petra Tózsér¹, Péter Lajos Sóti¹, Enikő Borbás²

¹Lavet Pharmaceuticals Ltd, Kistracska, ²Budapest University of Technology and Economics, Budapest, Hungary

Influence of Polymeric and Mesoporous Carriers on the Stability of Amorphous Resveratrol-Loaded Solid Dispersions Obtained by Hot-Melt Extrusion

Pia Berglez, Alenka Zvonar Pobirk, Barbara Sterle Zorec

Department of Pharmaceutical Technology, Faculty of Pharmacy, Ljubljana, Slovenia

Profiling the Interactions of Labelled and Non-Labelled Mesoporous Silica Nanoparticles with Biofilms

Rabia Gulshan

Abo Akademi University, Turku, Finland



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Comparative Study of Incorporation and Adsorption Strategies for Selected Compounds on Albumin Nanoparticles

Rennie Sathyan Antony Sandhana Rajappa, Samukai Duaplay,

Zeynep Arzum Guven, Nicole Ainekisha Shumbusho, Beata Lemli

Institute of Pharmaceutical Technology and Biopharmacy, Faculty of Pharmacy, University of Pécs, Pécs, Hungary

Biomimetic Macrophage-Membrane Coated Nanogels for Diabetic Wounds

Xin Yang¹, Hongbo Zhang¹

Åbo Akademi University, Turku, Finland

Evaluation of Cyclodextrin Uptake via Macropinocytosis in Multidrug Resistant Cancer Cells

Zeinab Ibrahim¹, Judit Váradi², Katalin Réti-Nagy¹, Ágnes Rusznyák¹,

Csenge Urgyán¹, Ferenc Fenyvesi¹

¹Department of Molecular and Nanopharmaceutics, Faculty of Pharmacy; ²Department of Pharmaceutical Technology, Faculty of Pharmacy, University of Debrecen, Debrecen, Hungary

Assessment of content uniformity using Process Analytical Technology:

A Case Study in the Context of the U.S. Pharmacopeia

Zoltán Petrovics¹, Enikő Borbás¹, Zsombor Kristóf Nagy¹, Brigitta Nagy¹,

Sándor Kemény², Éva Pusztai²

¹Department of Organic Chemistry and Technology; ²Department of Chemical and Environmental Process Engineering, Faculty of Chemical Technology and Biotechnology, Budapest University of Technology and Economics, Budapest, Hungary

Bridging Quality by Design and Therapy Outcome Optimisation in Parenteral Drug Development

Zsófia Németh, Gábor Katona, Ildikó Csóka

Institute of Pharmaceutical Technology and Regulatory Affairs, Faculty of Pharmacy, University of Szeged, Szeged, Hungary



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Cytotoxicity and cell line studies of chitosan ascorbate buccal films containing captopril

Katalin Kristó¹, Hala Rayya¹, Raghad Alsheikh^{2,3}, Dániel Nemes³, Lajos Nagy⁴, Géza Regdon Jr.¹, Ildikó Bácskay^{2,3,5}, Krisztián Pamlényi¹

¹*Institute of Pharmaceutical Technology and Regulatory Affairs, University of Szeged, Szeged;*

²*Department of Pharmaceutical Technology, Faculty of Pharmacy,;* ³*Doctorate School of Pharmaceutical Sciences,;* ⁴*Department of Applied Chemistry, Institute of Chemistry, Faculty of Science and Technology,;* ⁵*Institute of Healthcare Industry, University of Debrecen, Debrecen, Hungary*

Development and Validation of an HPLC Method of Pimecrolimus For Dermal Delivery

Ebrar Elif Kesmen Salik¹, Muhammet Davut Arpa², Neslihan Üstündağ Okur¹

¹*University of Health Sciences, Faculty of Pharmacy;* ²*Medipol University, Faculty of Pharmacy, Istanbul, Türkiye*

Construction of nicotinic acid curcumin nanoparticles and its Anti-atherosclerosis effect via PCSK9/LDL-R, ABCA1/Caveolin-1/LXR pathway

Chao-ping He, Wen-juan Quan, Ya-ling Zeng, Hong-yan Zhou, Pei-dong You, Zhen-xian Li, Ya-mei Li, Li-mei Lin, Bin Liu, Duan-fang Liao a,c, Qin-hui Tuo

Key Laboratory for Quality Evaluation of Bulk Herbs of Hunan Province, Hunan University of Chinese Medicine, Changsha, Hunan, China; *Pharmaceutical Sciences Laboratory, Åbo Akademi University, Turku, Finland*

Isolation and Preliminary Characterization of Extracellular Vesicles from 5 Different Acute Myeloid Leukemia Cell Line for AML Therapy

A. S. Atmaca¹, C. Esen², S. Muçaj¹, Y. Özküçük³, S. Ulutürk⁴, E. T. Demir⁴, C. C. Eylem⁵, E. Nemutlu⁵, D. Yöyen Ermiş², G. Esendağlı⁴, S. S. Timur¹

¹*Department of Pharmaceutical Technology, Faculty of Pharmacy, Hacettepe University, Ankara;*

²*Department of Immunology, Faculty of Medicine, Bursa Uludağ University, Bursa;* ³*Department of*

Medical Biochemistry, Faculty of Medicine, Çukurova University, Adana; ⁴*Department of Basic*

Oncology, Cancer Institute, Hacettepe University, Ankara; ⁵*Department of Analytical Chemistry,*

Faculty of Pharmacy, Hacettepe University, Ankara, Türkiye



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SEPTEMBER 25, FRIDAY

08:30 – 09:30 POSTER AND COFFEE

08:30 – 09:30 PARALLEL SESSIONS

08:30 – 09:30 “MEET THE EXPERTS” INTERACTIVE POSTER SESSION III.

PHARMACEUTICAL CHEMISTRY AND PHARMACOLOGY

Investigation of MYD88 Inhibition by siRNA-Mediated Gene Silencing in a Macrophage Model

Ágnes Klusóczki, János Agócs-Kiss, Ildikó Bácskay, Judit Váradi

Department of Pharmaceutical Technology, Faculty of Pharmacy, University of Debrecen, Debrecen, Hungary

New Carbamate Pseudo-Irreversible Butyrylcholine Esterase Inhibitors

Aleš Obreza¹ Svit Ferjančič Benetik¹

¹Faculty of Pharmacy, University of Ljubljana, Ljubljana, Slovenia

Reaction Of (E)-3-(4'-X-Benzylidene)-4-Thiochromanones with Cellular Thiols. Short-Range Electronic Assistance at the Transition State in The 4-Sulfur and 4-Oxygen Analogs of (E)-2-(4'-X-Benzylidene)-1-Tetralone in Thia-Michael Reactions

Gábor Bognár, Zoltán Pintér, Csaba Kadlecsik, Pál Perjési

Institute of Pharmaceutical Chemistry, University of Pécs, Pécs, Hungary

Linalool and Geraniol Defend Neurons from Oxidative Stress, Inflammation, and Iron Accumulation in in Vitro Parkinson's Models

Edina Pandur¹, Balázs Major^{1,2}, Tibor Rák^{2,3}, Katalin Sipos¹, Adrienne Csutak³,

Györgyi Horváth²

¹Department of Pharmaceutical Biology, Faculty of Pharmacy; ²Department of Pharmacognosy, Faculty of Pharmacy; ³Department of Ophthalmology, Medical School, Clinical Centre, University of Pécs, Pécs, Hungary



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Cyclodextrin Complexation Study of Diarylheptanoids Isolated from *Alpinia officinarum*

András Dohárszky, Laura Molnár, Tamás Czeglédi, Eszter Riethmüller, Ida Fejős
Department of Pharmacognosy, Semmelweis University, Budapest, Hungary

Pharmacological Evaluation of Fluorine-Containing Cannabidiol Derivatives

Richárd Kajtár¹, Kitti Szőke², Alexandra Gyöngyösi², Simon Eskeif¹, Adina Fésüs², Éva Sípos², Márk Tóth², Dang Minh Anh Ngo², Dániel Ferenc Pertóczy³, Ilona Bakai-Bereczki³, Anikó Borbás³, Ferenc Papp⁴, Russo Teklu Teshome⁴, István Lekli²

¹*Department of Pharmacodynamics, Faculty of Pharmacy, Doctoral School of Pharmaceutical Sciences;*

²*Department of Pharmacodynamics, Faculty of Pharmacy;* ³*Department of Pharmaceutical Chemistry, Faculty of Pharmacy;* ⁴*Department of Biophysics and Cell Biology, Faculty of Medicine, University of Debrecen, Hungary*

Phytochemical Characterization and Investigation of the Biological Activity of Osage Orange (*Maclura Pomifera* L.)

Rita Osztie^{1,2}, Tamás Czeglédi^{1,2}, Pegah Poursafar¹, Imre Boldizsár^{1,2,3}, Márta Krasznai^{2,4}, Szilvia Bősze^{5,6}, Ágnes Alberti^{1,2}

¹*Department of Pharmacognosy, Semmelweis University, Budapest, Hungary;* ²*Center for Pharmacology and Drug Research & Development, Semmelweis University;* ³*Department of Plant Anatomy, Institute of Biology, Eötvös Loránd University;* ⁴*Department of Pharmaceutical Chemistry, Semmelweis University, Budapest, Hungary;* ⁵*HUN-REN-ELTE Research Group of Peptide Chemistry, Hungarian Research Network, Eötvös Loránd University;* ⁶*Department of Genetics, Cell- and Immunobiology, Semmelweis University, Budapest, Hungary*

A Novel Ibuprofen-Derived H₂S Donor (EV-34) with Optimized Release Kinetics Attenuates Doxorubicin-Induced Cardiotoxicity

Simon Eskeif^{1,3}, Alexandra Gyöngyösi^{1,3}, Dr. Lília Kardosné Ambrus^{1,3}, Ferenc Fenyvesi^{2,3}, Pál Herczegh^{4,5}, Anikó Borbás⁴, Ilona Bereczki^{4,5}, István Lekli^{1,3}

¹*Department of Pharmacology, Faculty of Pharmacy;* ²*Department of Molecular and Nanopharmaceutics, Faculty of Pharmacy;* ³*Doctoral School of Pharmaceutical Sciences;* ⁴*Department of Pharmaceutical Chemistry, Faculty of Pharmacy;* ⁵*HUN-REN-UD Pharmamodul Research Group, University of Debrecen, Debrecen, Hungary*



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Biological Effects of Novel Cannabigerol Derivative PFD 45/I on Renal Cell Carcinoma Cells

Zsuzsanna Szabó¹, Ali Shamma², Dániel Petróczi³, Ilona Bereczki³, Anna Vass¹, Anikó Borbás³, Árpád Tószaki^{3,4}, Erzsébet Szabó^{3,4}, Gábor Halmos¹

¹Department of Biopharmacy, Faculty of Pharmacy, ²Department of Pharmaceutical Chemistry, Faculty of Pharmacy, ³Department of Pharmacodynamics, Faculty of Pharmacy, ⁴HUN-REN-TKI-DE Pharmamodul Research Group, University of Debrecen, Debrecen, Hungary

Phytochemical profile, hemostatic and wound healing activities of extracts from different parts of common comfrey (*Symphytum officinale* L.)

Getter Dolgošev, Oleh Koshovyi, Jyrki Heinämäki, Ain Raal
University of Tartu, Estonia

08:30 – 09:30 “MEET THE EXPERTS” INTERACTIVE POSTER SESSION IV.

PHARMACEUTICAL TECHNOLOGY AND DRUG DELIVERY III.

Development of Innovative Buccal Films for the Treatment of Different Oral Diseases

Sarolta Krenyitzky¹, Noel Nagy-Szendrey¹, Ildikó Bácskay², Ágnes Rusznyák¹

¹Department of Molecular and Nanopharmaceutics; ²Department of Pharmaceutical Technology, University of Debrecen

The Impact of Polymeric Carrier And Resveratrol Loading on its Solid-State Characteristics in Mesoporous Carrier-Based Solid Dispersions Obtained by Hot Melt Extrusion

Pia Berglez, Barbara Sterle Zorec, Odon Planinšek, Alenka Zvonar Pobirk
University of Ljubljana Faculty of Pharmacy, Ljubljana, Slovenia

Modeling and Optimization of Mixing Behavior in a Baffled Cubic Mixer Using Artificial Neural Networks

Amina Bouhaouche, Kamel Daoud

Pharmaceutical Engineering Team, Laboratory of Transfer Phenomena, Faculty of Mechanical and Process Engineering, University of Sciences and Technology Houari Boumediene (USTHB), Algiers, Algeria



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Preparation and Investigation of Artemisia Annua L. Loaded Alginate Hydrogels with Excipients

Boglárka Papp¹, Richárd Kajtár², István Lekli², Zsolt Szűcs³, Sándor Gonda³, Fruzsina Szilágyi¹, Ádám Haimhoffer¹, Liza Józsa¹, Ágota Pető¹, Zoltán Ujhelyi¹, Ildikó Bácskay¹, Pálma Fehér¹

¹Department of Pharmaceutical Technology, Faculty of Pharmacy; ²Department of Pharmacodynamics, Faculty of Pharmacy; ³Institute of Biology and Ecology, Department of Botany, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary

Development and Validation of a Simple HPLC Method for the Determination of Ketorolac Tromethamine

Buse Tatar^{1,2}, Nihat Kurt², Eren Aytekin¹, Sibel Bozdağ Pehlivan¹

¹Department of Pharmaceutical Technology, Faculty of Pharmacy, Hacettepe University, Ankara, Türkiye; ²Department of Pharmaceutical Technology, Faculty of Pharmacy, Tokat Gaziosmanpaşa University, Tokat, Türkiye

Molecular Characterization of Fluorescently Labelled Cyclodextrin Derivatives Complexed with Adamantane Carboxylic Acid and Their Evaluation In HCT 116 Colorectal Carcinoma Cells

Csenge Urgyán¹, Katalin Réti-Nagy¹, Ferenc Fenyvesi¹

¹Department of Molecular and Nanopharmaceutics, Faculty of Pharmacy, University of Debrecen, Debrecen, Hungary

Metronidazole-Loaded Buccal Films as a Potential Platform for Periodontal Therapy: Development and Characterization

Dragana Zaklan¹, Olga Rakić¹, Jovana Milutinov¹, Veljko Krstonošić¹, Bojan Petrović², Nebojša Pavlović¹

¹Department of Pharmacy, Faculty of Medicine; ²Department of Dental Medicine, Faculty of Medicine, University of Novi Sad, Novi Sad, Serbia

Limitations in Pharmaceutical Applications of Poorly Soluble Antioxidants – Predicting the Impact of Dietary Fibre and Food Matrix on Oral Bioaccessibility of Resveratrol

Dubravka Vitali Čepo, Maja Bival, Emerik Galić, Nikolina Golub, Kristina Radić, Eva Perčić, Mario Jug

University of Zagreb Faculty of Pharmacy and Biochemistry, Zagreb, Croatia



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Development and Characterization of a Novel Calcium Butyrate-Loaded Sprayable Gel for the Treatment of Atopic Dermatitis

Gökçe Karaotmarlı Güven¹, Eda Çil², Samaneh Zahertar³, Neslihan Üstündağ Okur²

¹Department of Pharmaceutical Technology, Faculty of Pharmacy, Biruni University, Istanbul, Türkiye; ²Department of Pharmaceutical Technology, Faculty of Pharmacy, University of Health Sciences, İstanbul, Türkiye; ³Department of Pharmacy Services, Vocational School of Health Services, Istanbul Aydın University, İstanbul, Türkiye

In Vitro Model for the Permeation Enhancer Effect of Cyclodextrins

Enikő Borbás, Richárd Tóth

Budapest University of Technology and Economics, Budapest, Hungary

18:00 – 19:00 POSTER AND COFFEE

18:00 – 19:00 “MEET THE EXPERTS” INTERACTIVE POSTER SESSION V.

INDUSTRIAL PHARMACY

Predicting Powder Dosing Behavior from Bulk Powder Images Using Neural-Network Embeddings

Blaž Grilc, Odon Planinšek

Faculty of Pharmacy, University of Ljubljana, Ljubljana, Slovenia

CLINICAL TRIALS

Improving Clinical Trial Feasibility Through Early Principal Investigator Involvement

Dominika Csajbók, Csóka Ildikó, Dobó Dorina

Clinical Research Associate II, Clinical Research Unit, University of Szeged, Szeged, Hungary

Patient-Centered Pharmaceutical Development and Clinical Trials: Patient Recruitment and Retention

Anna Kurucz, Ildikó Csóka

Institute of Pharmaceutical Technology and Regulatory Affairs, University of Szeged, Szeged, Hungary



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PHARMACEUTICAL ANALYTICS AND MODELING

Analytical Method Development and Validation of Vesatolimod by HPLC

Yasin Şenol¹, Nihat Kurt², Mustafa Çelebier¹

¹Department of Analytical Chemistry, Faculty of Pharmacy, Hacettepe University, Ankara, Türkiye;

²Department of Pharmaceutical Technology, Faculty of Pharmacy, Tokat Gaziosmanpaşa University, Tokat, Türkiye

Development and Validation of a High-Performance Liquid Chromatography Method for Nintedanib

Nihat Kurt^{1,2}, Yasin Şenol³, Eren Aytekin¹, Mustafa Çelebier³,
Sibel Bozdağ Pehlivan¹, Levent Öner¹

¹Department of Pharmaceutical Technology, Faculty of Pharmacy; ³Department of Analytical Chemistry, Faculty of Pharmacy, Hacettepe University, Ankara, Türkiye; ²Department of Pharmaceutical Technology, Faculty of Pharmacy, Tokat Gaziosmanpaşa University, Tokat, Türkiye

Variability in Withanolide Content of Commercial Ashwagandha Supplements: a HPLC-ESI-MS/MS Study

Csanád Vörös, Orsolya Csernák

Department of Pharmacognosy, Semmelweis University, Budapest, Hungary