

CONTENTS

REVIEW

3. Ewelina Rutkowska, Karolina Pająk, Krzysztof Józwiak Lipophilicity – methods of determination and its role in medicinal chemistry.

ANALYSIS

19. Krystyna Czerwińska, Elżbieta Wyszomirska, Aleksander P. Mazurek Identification and determination of selected histamine antagonists by densitometric method.
27. Mirosława Krauze-Baranowska, Loretta Pobłocka-Olech, Daniel Głód, Marian Wiwart, Jerzy Zieliński, Piotr Migas HPLC of flavanones and chalcones in different species of *Salix*.
35. Tomasz Baj, Agnieszka Ludwiczuk, Elwira Sieniawska, Krystyna Skalicka-Woźniak, Jarosław Widelski, Krzysztof Zięba, Kazimierz Głowniak GC-MS analysis of essential oils from *Salvia officinalis* L.: Comparison of extraction methods of the volatile components.
41. Elżbieta Huzar, Alicja Wodnicka Determination of ethanol content in medicated syrups by static headspace gas chromatography.
51. Wanda Białecka, Anna Kulik, Marzena Podolska, Barbara Kwiatkowska-Puchniarz, Aleksander Mazurek Purity determination of gynalgin bactericidal tablets with HPLC method.
59. Urszula Hubicka, Barbara Żuromska-Witek, Jan Krzek, Maria Walczak, Marek Żylewski Kinetic and thermodynamic studies of moxifloxacin hydrolysis in the presence and absence of metal ions in acidic solutions.

DRUG BIOCHEMISTRY

71. Mirosław Krośniak, Renata Francik, Joanna Kowalska, Ryszard Gryboś, Magdalena Blusz, Wojciech M. Kwiatek Effects of vanadium complexes supplementation on V, Fe, Cu, Zn, Mn, Ca and K concentration in STZ diabetic rat's spleen.
79. Joanna Wawszczyk, Arkadiusz Orchel, Małgorzata Kapral, Ludmiła Węglarz Role of protein tyrosine kinase in the effect of IP6 on IL-8 secretion in intestinal epithelial cells.
87. Daniel Sypniewski, Ilona Bednarek, Sabina Gałka, Tomasz Loch, Daria Błaszczuk, Dagna Sołtysik Cytotoxicity of etoposide in cancer cell lines *in vitro* after *BCL-2* and *C-RAF* gene silencing with antisense nucleotides.

DRUG SYNTHESIS

99. Nehal A. Hamdy, Waled M. El-Senousy Synthesis and antiviral evaluation of some novel pyrazoles and pyrazolo[3,4-d]pyridazines bearing 5,6,7,8-tetrahydronaphthalene.

NATURAL DRUGS

111. Aleksandra Owczarek, Jan Gudej Investigation on biologically active constituents of *Geum rivale* L.
115. Abubakar B. Aliyu, Mohammed A. Ibrahim, Aliyu M. Musa, Aisha O. Musa, Joyce J. Kiplimo, Adebayo O. Oyewale Free radical scavenging and total antioxidant capacity of root extracts of *Anchomanes difformis* Engl. (Araceae).

PHARMACEUTICAL TECHNOLOGY

123. S.K. Sahoo, Su. K. Sahoo, A. Behera, S.V. Patil, S. K. Panda Formulation, *in vitro* drug release study and anticancer activity of 5-fluorouracil loaded gellan gum microbeads.
129. Jitka Mužíková, Pavla Šinágllová Comparison of properties of tablets and energy profile of compaction of two spray-dried lactoses.
137. Monika Muško, Małgorzata Sznitowska Stability of extemporaneous pediatric oral liquids compounded from tablets and drug substance: case of propranolol and theophylline.

PHARMACOLOGY

145. Krzysztof Łukawski, Grażyna Świdorska,
Stanisław J. Czuczwar Effect of combined treatment with diuretics and gabapentin on
convulsive treshold in mice.
151. Natalia Gurtowska, Tomasz Kloskowski, Joanna Olkowska,
Anna Bajek, Robert Dębski, Jowita Zielaskowska,
Tomasz Drewa Carboplatin and sodium butyrate, separate – yes,
but combined – never.

SHORT COMMUNICATION

161. Andrzej Zięba, Robert D. Wojtyczka, Danuta Idzik,
Małgorzata Kępa Synthesis and *in vitro* antimicrobial activity of
1-methyl-3-sulfonylthio-4-aminoquinolinium chlorides.
167. Erratum