

Journal of AOAC INTERNATIONAL

VOLUME 106, NUMBER 2
MARCH/APRIL 2023

Contents

Research Articles

Animal Food, Pet Food, and Plant Nutrient Methods

Evaluation of Heating Times for Loss on Drying at 105°C for Estimation of Laboratory Dry Matter in Animal Feeds

Daiana F. Quirino, Nicole S. A. Lima, Malber N. N. Palma, Marcia O. Franco, and Edenio Detmann 261

Drug Formulations

Stability-Indicating RP-HPLC Method Development and Validation for Eltrombopag Olamine in the Presence of Impurities and Degradation Products. Robustness by Design of Expert Software
Rajeshwari Dandabattina, Velusamy B. Subramanian, Karuna Sree Merugu, Haridasyam SharathBabu, Naresh Kumar Katari, and Leela Prasad Kowtharapu 267

Redox-Based Colorimetric Sensor for the Selective Determination of Ascorbic Acid in Fixed-Dose Combination Tablets

Samah F. El-Malla, Fotouh R. Mansour, Rehab H. Elattar, and Amira H. Kamal 276

Silver Nanoparticles Application as a Colorimetric Probe for the Spectrophotometric Determination of Hyoscine Butylbromide in Pharmaceutical Formulations

Lazhin Ibrahim Hasan and Hijran Sanaan Jabbar 285

Validated HPLC-DAD and Spectrophotometric Methods for Simultaneous Determination of Ternary Mixture of Analgin, Caffeine, and Ergotamine

Israa A. Khalil, Sawsan A. Abdel Razeq, and Samah A. Mohammed 296

Review Article

Drug Formulations

Overview of Analytical Methods for Evaluating Tinidazole

Jean Carlos Pereira Sousa and Ana Carolina Kogawa 309

Short Communication

Environmental Chemical Contaminants

Quantification of 3,4-Dimethyl-1H-Pyrazole Using Ion-Pair LC-MS/MS on a Reversed-Phase Column

Gregory S. Doran, Jason R. Condon, and Brooke F. Kaveney 316

Research Articles

Food Chemical Contaminants

Modification of BIOFISH 300 HIS for Determination of Histamine in Fish and Fish Products: AOAC Performance Tested MethodSM 051604

Jone Garate, Itziar Ortiz de Zarate, Roberto González, Arrate Jaureguibeitia, and Sandra Salleres 320

Simultaneous Determination of Alternaria Toxins, Ergot Alkaloid Epimers, and Other Major Mycotoxins in Various Food Matrixes by LC-MS/MS

Shun-Hsin Liang, Jamie L. York, Joseph D. Konschnik, Hansjoerg Majer, and Justin A. Steimling 333

Determination of Ethanol in Food by Enzymatic Method EnzytecTM Liquid Ethanol, Collaborative Study: Final Action 2017.07

Markus Lacorn, Michaela Heßler-Noll, Paul Wehling, and Thomas Hektor 341

Determination of Ethanol Content in Water Kefir Using Headspace Gas Chromatography With Mass Spectrometry Detection: Matrix Extension and Methanol Characterization Hong Sy, Michael Chan, and Jamie Finley	348
Interlaboratory Evaluation of Multiple LC-MS/MS Methods and a Commercial ELISA Method for Determination of Tetrodotoxin in Oysters and Mussels Andrew D. Turner, Karl J. Dean, Monika Dhanji-Rapkova, Sonia Dall'Ara, Florella Pino, Claire McVey, Simon Haughey, Natasha Logan, Christopher Elliott, Ana Gago-Martinez, Jose Manuel Leao, Jorge Giraldez, Ryan Gibbs, Krista Thomas, Ruth Perez-Calderon, Dermot Faulkner, Hugh McEneny, Veronique Savar, Damien Reveillon, Philipp Hess, Fabiola Arevalo, J. Pablo Lamas, Eva Cagide, Mercedes Alvarez, Alvaro Antelo, Mirjam D. Klijnstra, Michalina Oplatowska-Stachowiak, Tim Kleintjens, Nermin Sajic, Michael J. Boundy, Benjamin H. Maskrey, D. Tim Harwood, Jesús M. González Jartín, Amparo Alfonso, and Luis Botana	356
Human Nutrient Methods	
Validation of the Test Method—Determination of Available Carbohydrates in Cereal and Cereal Products, Dairy Products, Vegetables, Fruit, and Related Food Products and Animal Feeds: Collaborative Study, Final Action 2020.07 Ciara McLoughlin, Vincent A. McKie, and Barry V. McCleary	370
Short Communication	
Human Nutrient Methods	
Rapid Analysis of Taurine in Infant Formula and Adult Nutritionals by Hydrophilic Interaction Liquid Chromatography–Mass Spectrometry Brendon D. Gill and Jackie E. Wood	384
Research Articles	
Microbiological Methods	
3M™ Petrifilm™ Rapid Yeast and Mold Count Plate Method for the Enumeration of Yeast and Mold on Selected Surfaces: AOAC Official Method 2014.05 Cari K. Lingle, April J. Schumacher, Micki L. Rosauer, Karen M. Silbernagel, and Jonathan Blackburn	389
3M™ Petrifilm™ Rapid Yeast and Mold Count Plate for the Enumeration of Yeasts and Molds in Dried Cannabis Flower: AOAC Official Method SM 2014.05 April Schumacher, Cari Lingle, and Karen M. Silbernagel	401
3M™ Petrifilm Yeast and Mold Count Plate for the Enumeration of Yeasts and Molds in Dried Cannabis Flower: AOAC Official Method SM 997.02 April Schumacher, Cari Lingle, and Karen M. Silbernagel	412
Natural Products	
Development and Validation of a Modified QuEChERS Method for Simultaneous Analysis of 250 Flavor Constituents in Tobacco by Gas Chromatography Tandem Mass Spectrometry Li Chen, Tiancai Shi, Jiaying Zhao, Zongcan Ren, Huapeng Cui, Fuwei Xie, Meijuan Fan, Shaofeng Liu, Cong Nie, and Huimin Liu	420
A New Ultra-Performance Liquid Chromatographic Method for the Quantification of Vitamin C in Fresh and Dried Goji Berries (<i>Lycium barbarum</i> L.) Cultivated in Turkey Erdal Dinc, Asiye Üçer, Nazangül Ünal, and Özgür Üstündağ	429
Rapid Screening of Vaping Liquids by DART-MS Travis M. Falconer and Flavia Morales-Garcia	436
Determination of Characteristic Volatile Component Fingerprint of <i>Peucedanum Praeruptorum</i> Dunn at Different Harvest Periods Based on HS-GC-IMS Linke Ma, Yunyun Luo, Bilian Chen, Cheng Zheng, Weifeng Du, Xingxing Shi, and Zengxi Guo	445

Determination of Amygdalin in Apricot Kernels and Almonds Using LC-MS/MS Carolyn M. Makovi, Christine H. Parker, and Kai Zhang	457
Separation of Nonivamide and Capsaicin by Ultrahigh-Performance Liquid Chromatography for Routine Analysis of Capsaicinoids in Capsicum Products Jinchuan Yang, Ben Pointer, and Paul Rainville	464
Sampling Methods	
Piloting a Proficiency Testing Program for Laboratory Sampling of Animal Feed Materials Nancy J. Thiex and Charles A. Ramsey	472
Simulations of Test Reduction Using Pooled Heavy Metals Analysis in Cannabis Tom B. Dupree, Amanda D. Assen, Eric Janusson, Amber R. Wise, Josh M. Swider, and Markus Roggen	484
Statistical Analysis and Chemometric Methods	
Spectrophotometric Quantitative Analysis of Aspirin and Vonoprazan Fumarate in Recently Approved Fixed-Dose Combination Tablets Using Ratio Spectra Manipulating Tools Ahmed H. Abdelazim, Ashraf Abdel-Fattah, Ayman O. E. Osman, Rady F. Abdel-Kareem, and Sherif Ramzy	490
Nucleotide-Based Lanthanide Coordination Polymer Nano-Probe for Turn-On Fluorescence Sensing of Zn ²⁺ in Serum Lili Guo, Liu Baoxia, Zhang Yintang, and Qu Peng	496
Method Greenness Profile Assessment to AQbD-Driven Stability Indicating HPTLC Method for Estimation of Aripiprazole Using Screening Design and Response Surface Modeling Pintu Prajapati, Alina Gandhi, and Shailesh Shah	501
Correction	
Correction to: Determination of Carcinogenic Primary Aromatic Amines Contained as Impurities in Synthetic Organic Colorants Tsuyoshi Kawakami, Tomoko Obama, Maiko Tahara, and Yoshiaki Ikarashi	514
Correction to: Characterization of the Complete Chloroplast Genome of Four Species in Callerya Zhi Chen, Chen Jin, Xiaoyun Wang, Yaqiong Deng, Xiaodan Tian, Xunxun Li, Qinxi Zhang, Yanli Zeng, Jiawei Liao, and Ling Zhang.....	515