

Accepted Manuscript

Title: Development and validation of modified QuEChERS method coupled with LC-MS/MS for simultaneous determination of cymiazole, fipronil, coumaphos, fluvalinate, amitraz, and its metabolite in various types of honey and royal jelly



Authors: Weijia Zheng, Jin-A Park, A.M. Abd El-Aty, Seong-Kwan Kim, Sang-Hyun Cho, Jeong-min Choi, Hee Yi, Soo-Min Cho, Amer Ramadan, Ji Hoon Jeong, Jae-Han Shim, Ho-Chul Shin

PII: S1570-0232(17)31350-8
DOI: <https://doi.org/10.1016/j.jchromb.2017.11.011>
Reference: CHROMB 20908

To appear in: *Journal of Chromatography B*

Received date: 4-8-2017
Revised date: 17-10-2017
Accepted date: 7-11-2017

Please cite this article as: Weijia Zheng, Jin-A Park, A.M. Abd El-Aty, Seong-Kwan Kim, Sang-Hyun Cho, Jeong-min Choi, Hee Yi, Soo-Min Cho, Amer Ramadan, Ji Hoon Jeong, Jae-Han Shim, Ho-Chul Shin, Development and validation of modified QuEChERS method coupled with LC-MS/MS for simultaneous determination of cymiazole, fipronil, coumaphos, fluvalinate, amitraz, and its metabolite in various types of honey and royal jelly, *Journal of Chromatography B* <https://doi.org/10.1016/j.jchromb.2017.11.011>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Development and validation of modified QuEChERS method coupled with LC-MS/MS for simultaneous determination of cymiazole, fipronil, coumaphos, fluvalinate, amitraz, and its metabolite in various types of honey and royal jelly

Weijia Zheng^a, Jin-A Park^a, A. M. Abd El-Aty^{a,b*}, Seong-Kwan Kim^a, Sang-Hyun Cho^a, Jeong-min Choi^a, Hee Yi^a, Soo-Min Cho^a, Amer Ramadan^b, Ji Hoon Jeong^c, Jae-Han Shim^d, Ho-Chul Shin^{a*}

^aDepartment of Veterinary Pharmacology and Toxicology, College of Veterinary Medicine, Konkuk University, Seoul 143-701, Republic of Korea

^bDepartment of Pharmacology, Faculty of Veterinary Medicine, Cairo University, 12211-Giza, Egypt

^cDepartment of Pharmacology, College of Medicine, Chung-Ang University, 221, Heuksuk-dong, Dongjak-gu, Seoul 156-756, Republic of Korea

^dNatural Products Chemistry Laboratory, College of Agriculture and Life Sciences, Chonnam National University, 300 Yongbong-dong, Buk-gu, Gwangju 500-757, Republic of Korea

***Corresponding authors:** Tel.: +82-10-5934-0701; Fax: +82-2-444-4396. E-mail: abdelaty44@hotmail.com (A. M. Abd El-Aty)

and Tel.: +82-2-450-4056; fax: +82-2-444-4396. E-mail: hshin@konkuk.ac.kr (H.-C. Shin)

Short running title: Pesticide residue analysis in honey products

Pages: 33

Tables: 5

Figures: 4

Download English Version:

<https://daneshyari.com/en/article/7615595>

Download Persian Version:

<https://daneshyari.com/article/7615595>

[Daneshyari.com](https://daneshyari.com)