Author's Accepted Manuscript

High-fast enantioselective determination of prothioconazole in different matrices by supercritical fluid chromatography and vibrational circular dichroism spectroscopic study

Ying Jiang, Jun Fan, Rujian He, Dong Guo, Tai Wang, Hui Zhang, Weiguang Zhang



PII: S0039-9140(18)30454-5 DOI: https://doi.org/10.1016/j.talanta.2018.04.097 Reference: TAL18636

To appear in: Talanta

Received date: 24 February 2018 Revised date: 22 April 2018 Accepted date: 29 April 2018

Cite this article as: Ying Jiang, Jun Fan, Rujian He, Dong Guo, Tai Wang, Hui Zhang and Weiguang Zhang, High-fast enantioselective determination of prothioconazole in different matrices by supercritical fluid chromatography and vibrational circular dichroism spectroscopic study, *Talanta*, https://doi.org/10.1016/j.talanta.2018.04.097

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 galley proof before it is published in its final citable 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.

ACCEPTED MANUSCRIPT

High-fast enantioselective determination of prothioconazole in different matrices by supercritical fluid chromatography and vibrational circular dichroism spectroscopic study

Ying Jiang^a, Jun Fan^{a,*}, Rujian He^a, Dong Guo^b, Tai Wang^b, Hui Zhang^{c,*}, Weiguang Zhang^{a,*}

^a School of Chemistry and Environment, South China Normal University, Guangzhou 510006, China

^b Guangdong YanJie Pharmatech Co. Ltd., Guangzhou 510663, China

^c School of Chemistry and Chemical Engineering, Xiamen University, Xiamen 361005, China

Prof. Dr. Wei-Guang Zhang wgzhang@scnu.edu.cn

Dr. Jun Fan fanj@scnu.edu.cn

*Corresponding authors: School of Chemistry and Environment, South China Normal University, Guangzhou 510006, China Tel./Fax: +86-20-39310187

ABSTRACT

Herein, we developed a rapid supercritical fluid chromatography (SFC) method for chiral separation and enantioselective determination of prothioconazole in soil and tomatoes. The potential effects of chiral stationary phases, co-solvents, column temperature, and back pressure on enantioseparation of prothioconazole have been Download English Version:

https://daneshyari.com/en/article/7675589

Download Persian Version:

https://daneshyari.com/article/7675589

Daneshyari.com