Journal Pre-proof

Chemical differentiation between Uncaria tomentosa and Uncaria guianensis by LC-PDA, FT-IR and UV methods coupled to multivariate analysis: a reliable tool for adulteration recognition

Samuel Kaiser, Ânderson Ramos Carvalho, Vanessa Pittol, Evelyn Maribel Peñaloza, Pedro Ernesto de Resende, Frederico Luis Felipe Soares, George González Ortega

PII: \$0026-265X(19)32604-9

DOI: https://doi.org/10.1016/j.microc.2019.104346

Reference: MICROC 104346

To appear in: Microchemical Journal

Received date: 17 September 2019
Revised date: 15 October 2019
Accepted date: 15 October 2019



Please cite this article as: Samuel Kaiser, Ânderson Ramos Carvalho, Vanessa Pittol, Evelyn Maribel Peñaloza, Pedro Ernesto de Resende, Frederico Luis Felipe Soares, George González Ortega, Chemical differentiation between Uncaria tomentosa and Uncaria guianensis by LC-PDA, FT-IR and UV methods coupled to multivariate analysis: a reliable tool for adulteration recognition, *Microchemical Journal* (2019), doi: https://doi.org/10.1016/j.microc.2019.104346

This is a PDF file of an article that has undergone enhancements after acceptance, such as the addition of a cover page and metadata, and formatting for readability, but it is not yet the definitive version of record. This version will undergo additional copyediting, typesetting and review before it is published in its final form, but we are providing this version to give early visibility of the article. 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.

© 2019 Published by Elsevier B.V.

Journal Pre-proof

Highlights

- US pharmacopeia method did not recognize simulated adulterated *Uncaria tomentosa*.
- Different multivariate methods were made to recognize UG adulteration in UT samples
- UV analysis showed good performance in adulteration recognition, and quantification
- LC-PDA analysis of polyphenols can be a confirmatory method for unclassified sample
- Flavonoids distribution profile presented higher levels in UG compared with UT



Download English Version:

https://daneshyari.com/en/article/13473349

Download Persian Version:

https://daneshyari.com/article/13473349

<u>Daneshyari.com</u>