

Accepted Manuscript

Title: Construction of an optimized method for quality evaluation and species discrimination of *Coptidis Rhizoma* by ion-pair high performance liquid chromatography combined with response surface methodology

Authors: Tian-Jin Wu, Jun Lu, Hui Ni, Ping Li, Yan Jiang, Hui-Jun Li

PII: S0731-7085(17)33091-1
DOI: <https://doi.org/10.1016/j.jpba.2018.02.019>
Reference: PBA 11787

To appear in: *Journal of Pharmaceutical and Biomedical Analysis*

Received date: 17-12-2017
Revised date: 3-2-2018
Accepted date: 8-2-2018

Please cite this article as: Tian-Jin Wu, Jun Lu, Hui Ni, Ping Li, Yan Jiang, Hui-Jun Li, Construction of an optimized method for quality evaluation and species discrimination of *Coptidis Rhizoma* by ion-pair high performance liquid chromatography combined with response surface methodology, *Journal of Pharmaceutical and Biomedical Analysis* <https://doi.org/10.1016/j.jpba.2018.02.019>

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.



Construction of an optimized method for quality evaluation and species discrimination of *Coptidis Rhizoma* by ion-pair high performance liquid chromatography combined with response surface methodology

Tian-Jin Wu ^a, Jun Lu ^a, Hui Ni ^a, Ping Li ^a, Yan Jiang ^{b,*}, Hui-Jun Li ^{a,*}

^a*State Key Laboratory of Natural Medicines, China Pharmaceutical University, No. 24 Tongjia Lane, Nanjing 210009, China*

^b*Nanjing Forestry University, Nanjing 210037, China*

***Corresponding authors:** Assoc. Prof. Yan Jiang, Tel.:+86-25-85427544; Prof. Hui-Jun Li, Tel./Fax: +86-25-83271379.

E-mail addresses: jiangyancpu@126.com (Yan Jiang); cpuli@163.com (Hui-Jun Li)

Highlights

- Influential factors in ion-pairing chromatography are reasonably optimized.
- The optimal chromatographic conditions improve the resolutions and save the analysis time.
- A single standard to determine multi-components method is developed.
- Three *Coptis* species can be discriminated by the distribution of three minor alkaloids.

Download English Version:

<https://daneshyari.com/en/article/7627100>

Download Persian Version:

<https://daneshyari.com/article/7627100>

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