



张霞, 傅旭春, 白海波. 广西地产黄杞叶指纹图谱研究[J]. 中国现代应用药学, 2014, 31(1):54-57

广西地产黄杞叶指纹图谱研究

The Fingerprint Research of Engelhardia Roxburghiana Leaves from Origination in Guangxi

投稿时间: 2013-05-08 最后修改时间: 2013-08-13

DOI:

中文关键词: [黄杞](#) [指纹图谱](#) [高效液相色谱](#)

英文关键词: [Engelhardia Roxburghiana](#) [Fingerprint Spectrum](#) [High Performance Liquid Chromatography](#)

基金项目:

作者	单位	E-mail
张霞	杭州华东医药集团生物工程研究所	545216153@qq.com
傅旭春	浙江大学城市学院药物研究所	
白海波	杭州华东医药集团生物工程研究所	

摘要点击次数: 75

全文下载次数: 77

中文摘要:

目的 建立广西地产黄杞叶指纹图谱检测方法, 为提高黄杞叶的质量控制提供依据。方法 以Diamondsil?C18(2)5 μm 250 \times 4.6 mm为色谱柱, C18 5 μm 4.6 mm i.d. \times 15 mm为保护柱, 乙腈-0.05%磷酸溶液(19: 81)为流动相, 流速为1.0 mL \cdot min $^{-1}$, 检测波长240 nm, 进样量10 μL , 柱温30 $^{\circ}\text{C}$, 分析时长60 min; 采用中国药典委员会组织编制的中药色谱指纹图谱相似度评价系统A版(2004)计算相似度。结果 该指纹图谱测定方法具有很好的重复性和稳定性, 符合指纹图谱相关要求且操作简便、快速; 11批样品指纹图谱可检测出11个相对位置稳定的共有峰且各批样品指纹图谱与建立的对照指纹图谱之间的相似度均在0.95以上。结论 测定方法简便、快速而且准确、可靠, 可用于黄杞叶的质量控制。

英文摘要:

OBJECTIVE To study the RP-HPLC fingerprints of 11 batches of Engelhardia Roxburghiana leaves from different regions of Guangxi province for their quality control. METHODS The fingerprint spectrum was determined by HPLC-UV. The HPLC separation was achieved on a reverse phase Diamondsil? C18 (2) column (4.6 mm i.d. \times 250 mm, 5 μm) with a C18 guard column (4.6 mm i.d. \times 15 mm, 5 μm) maintained at 30 $^{\circ}\text{C}$. The mobile phase was acetonitrile-water containing 0.05% phosphoric acid (19:81, v/v). The flow rate was set at 1.0 mL \cdot min $^{-1}$. The detection wave length was 240 nm. The injection volume was 10 μL . The analyzing time was 60 min. Similarity evaluation system for chromatographic fingerprint of TCM published by Chinese Pharmacopoeia Commission (Version: 2004A) was used in data analysis. RESULTS A sensitive,

reproducible and selective detection method and a rapid, stable and simple extraction procedure were developed and validated. A reference fingerprint spectrum was established and 11 co-possessing peaks were selected as fingerprints. The similarity between the reference fingerprint spectrum and each fingerprint spectrum from the eleven samples was analyzed and all the similarity values were not less than 0.95. CONCLUSION The method for fingerprint spectrum establishment was scientific and reasonable and can be used for quality control of Engelhardia Roxburghiana leaves from origination in Guangxi.

[查看全文](#) [查看/发表评论](#) [下载PDF阅读器](#)

[关闭](#)

版权所有 © 2008 中国现代应用药学杂志社 浙ICP备12047155号
地址：杭州市文一西路1500号，海创园科创中心6号楼4单元1301室
电话：0571-87297398 传真：0571-87245809 电子信箱：xdyd@chinajournal.net.cn
技术支持：北京勤云科技发展有限公司