



中文标题 搜索 药刊检索

## 光谱成像技术快速鉴别白鲜皮及其伪品八角枫

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作者中文名	作者英文名	单位中文名	单位英文名	E-Mail
赵静	ZHAO Jing	华南农业大学 理学院, 广东 广州 510640	College of Science, South China Agricultural University, Guangzhou 510640, China	
成其昌	PANG Qiechang	暨南大学 广东省高等学校 光电信息与传感技术重点实验室, 广东 广州 510630	Key Laboratory of Optoelectronic Information and Sensing Technologies, Jinan University, Guangzhou 510630, China	
马骥	MA Ji	南方医科大学 中医药学院, 广东 广州 510515	College of Traditional Chinese Medicine, Southern Medical University, Guangzhou 510515, China	majitk@yahoo.com.cn
刘传明	LIU Chuanning	南方医科大学 中医药学院, 广东 广州 510515	College of Traditional Chinese Medicine, Southern Medical University, Guangzhou 510515, China	
王琳	WANG Lin	暨南大学 广东省高等学校 光电信息与传感技术重点实验室, 广东 广州 510630	Key Laboratory of Optoelectronic Information and Sensing Technologies, Jinan University, Guangzhou 510630, China	
孟庆霞	MENG Qingxia	暨南大学 广东省高等学校 光电信息与传感技术重点实验室, 广东 广州 510630	Key Laboratory of Optoelectronic Information and Sensing Technologies, Jinan University, Guangzhou 510630, China	

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**中文摘要:**目的: 运用光谱成像技术快速鉴别白鲜皮及其伪品八角枫, 为其质量控制提供新的方法。方法: 应用电可控制液晶滤光光谱成像装置, 检测白鲜皮对照品和5种不同市售来源的白鲜皮饮片及伪品八角枫。光谱分辨率为5 nm, 光谱覆盖范围为405~680 nm, 空间分辨率为50 lp·mm<sup>-1</sup>。提取白鲜皮特征光谱曲线, 采用主成分分析等方法解析, 用于白鲜皮及其伪品八角枫的鉴别。结果: 光谱成像技术快速检测白鲜皮及其伪品八角枫, 其结果与性状、显微及理化鉴定结果相吻合。结论: 光谱成像分析技术可用于中药白鲜皮的鉴别, 操作方法简便、快速、无损。

**中文关键词:** 白鲜皮 光谱成像分析 真伪鉴别

### Rapid identification of Cortex Dictamnii pieces and its counterfeit alangium Chinese by spectral imaging method

**Abstract:** Objective: The spectral imaging method was used to quickly identify the Cortex Dictamnii pieces and its counterfeit alangium Chinese, which is a potential method would be applied to control the quality of the Cortex Dictamnii pieces. Method: Standard sample, 5 cortex dictamnii samples and its counterfeit alangium Chinese of different sources were tested by the liquid crystal imaging instrument. The spectrum resolution was 5 nm, the spectral range was from 405 nm to 680 nm, and the spatial resolution was 50 lp·mm<sup>-1</sup>. The characteristic spectrum curves were picked up from spectral cube and principal analysis method was used to analyze the results. Result: The identification results by the spectral imaging method accorded well with the results by the traditional biology and chemistry analysis method. Conclusion: The spectral imaging analysis method can be used to identify the cortex dictamnii pieces and its counterfeit alangium Chinese. The testing course is convenient, quick and noninvasive.

**keywords:** Cortex Dictamnii spectral imaging analysis identification of counterfeit

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