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摘要：为建立一种新的中药材鉴定与分析方法，我们采用粉末X射线衍射分析技术，分别对19个不同来源的栀子样品进行实验分析研究。利用粉末X射线衍射傅立叶（Fourier）指纹图谱分析方法，获得栀子与水栀子等中药材的各自对照衍射图谱和特征标记峰值。使用对照衍射图谱和特征标记峰值可以很好地区分道地中药材栀子、药材栀子变种—水栀子及地方习用品—黄花栀子。分析结果表明，粉末X射线衍射Fourier指纹图谱分析方法可以用于传统中药材的鉴定与质量控制。

关键词：中药材,X射线衍射,傅立叶（Fourier）,指纹图谱,栀子

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[Identification on chinese materia medica cape jasmine by X ray diffraction fourier fingerprint patte](#)

Abstract: To develop a new identification and analysis method for Traditional Chinese Medicine, the Powder X ray Diffraction was used on nineteen different specimens for Cape Jasmine. The reference X ray diffraction Fourier Fingerprint Patterns and characteristic diffraction peaks of Cape Jasmine and "Shui Zhizi" were obtained by Powder X ray Diffraction Fourier Fingerprint Pattern method. Identification result shows that Cape Jasmine was well distinguished from the variation of Cape Jasmine "Shui Zhizi", and the habitually prescribing medicinal materials "Huanghua Zhizi". The Fourier Fingerprint Patterns and characteristic diffraction peaks can be used for identification and quality control of Traditional Chinese Medicine.

Key words: Traditional chinese medicine, X Ray diffraction, Fourier fingerprint pattern, Cape jasmine

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