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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 pattern method](#)

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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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