

论文

中药材山柰的X衍射Fourier图分析

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摘要:

每种中药材中均含有数十种乃至上百种成分,是一个多组分系统。X衍射将提供一种既能反映中药材整体固有结构特征,又能表现来自其局部成分变化的图谱化与数值化的方法。它将在衍射空间中实现中药材的鉴定。考虑到中药材的品种、产地、生长年限、采集季节等物候因素的影响,本研究选择了不同产地和采集时间的植物药山柰与苦山柰的6个样品进行X衍射Fourier图分析。获得了可用于山柰与苦山柰鉴别的特征标记峰与衍射模糊图形。研究结果表明,X衍射Fourier图分析法尚可用于性状与组织结构相似、化学成分相近的中药材的鉴别。

关键词: 山柰 苦山柰 X衍射 中药材

X-RAY DIFFRACTION FOURIER PATTERN ANALYSIS OF THE CHINESE MATERIA MEDICA "SHANNAI" (KAEMPFERIA GALANGA L.)

Lu Yang; Zheng Qitai; Zhang Shu and Chen Yuheng

Abstract:

Every Chinese materia medica consists of dozens of ingredients. It is a multiingredient system. X-ray diffraction provides a way to determine Chinese materia medica in diffraction space which can reflect the general structural characteristics of Chinese materia medica and quantitative changes of partial ingredients. Considering the influence of varieties, growing places, growing periods, collecting seasons and other phenological factors, we selected 6 samples of *Kaempferia galanga* L. and *Kaempferia marginata* Carey, collected in different seasons from different growing places for X-ray diffraction Fourier Pattern Analysis. We have obtained characteristic peaks and diffraction fuzzy figures for distinguishing purposes. The result shows that X-ray diffraction Fourier Pattern Analysis can be used for distinguishing Chinese materia medica with similar shape and properties, similar tissue texture or similar chemical composition.

Keywords: *Kaempferia marginata* Carey X-ray diffraction Chinese materia medica *Kaempferia galanga* L.

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