

刘军 保定 河北大学化学系 071002

刘蓬勃 保定 河北省保定市药品检验所 071051

朱世玮 保定 河北省保定市药品检验所 071051

杨严严 北京 清华大学化学系 100084

孙素琴 北京 清华大学化学系 100084

摘要: 本文首次利用近红外傅立叶变换拉曼(NIR FT-Raman)和傅立叶变换红外(FT-IR)光谱法无损快速鉴别了八角茴香和伪品莽草、红茴香。结果表明:八角茴香和伪品莽草、红茴香在拉曼和红外谱图中均有各自的特征峰,可容易地将它们区别开来。该方法具有快速、准确、操作简单、不需对样品进行提取分离,可直接进行测定等特点。

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Identification of Untreated Chinese Herb (Fructus Illicit veri) by FT-Raman and FT-IR Spectroscopy

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Abstract: In this paper, Fructus illicii veri were examined with NIR FT-Raman and FT-IR spectroscopy for the first time. It is found that the vibration frequency variance follows a certain specific regularity. The spectra of each group via their feature bands and their band intensities are different between FT-IR and FT-Raman. These two complementary spectroscopic techniques can give valuable information about these herbs without the need of physical separation.

Key words:

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