



RP-HPLC同时测定白鲜皮中3种活性成分的含量

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中文摘要·目的:建立同时测定白鲜皮中白鲜碱、黄柏酮和鞣酚含量的反相高效液相色谱法,为中药白鲜皮标准的制定提供依据。方法:采用甲醇回流提取,以Kromasil C₁₈(4.6 mm×250 mm,5 μm)为固定相,甲醇-水(60:40)为流动相,检测波长236 nm,流速1 mL·min⁻¹,柱温为25℃。结果:该3种成分分离良好,线性范围依次为0.002 1-0.106 0、0.020 1-0.920 0和0.010 2-1.020 g·L⁻¹,加样回收率分别为100.5%、99.2%和100.2%。结论:本方法操作简单、快捷、重现性好、准确率高,可用于白鲜皮药材的质量控制。

中文关键词:白鲜皮 鞣酚 白鲜碱 黄柏酮 HPLC

Simultaneous determination of three active compounds in root barks of *Dictamnus dasycarpus* by RP-HPLC

Abstract: Objective: To develop a RP-HPLC method for simultaneous determination of three active compounds, dictamnine, obacunone and fraxinellone in root bark of *Dictamnus dasycarpus* and supply a reference for the establishment of the quality standard of *D. dasycarpus*. Method: A Kromasil C₁₈ column was used with methanol-water (60:40) as the mobile phase, at the flow rate of 1 mL·min⁻¹, 236 nm was selected as the detected wavelength. Result: The determined three compounds were well separated with a linear range of 0.002 1-0.106 0, 0.020 1-0.920 0 and 0.010 2-1.020 g·L⁻¹, respectively. The recoveries of them were 100.5%, 99.2% and 100.2%, respectively. Conclusion: This method is simple, rapid and accurate, particularly suitable for the quality control of *D. dasycarpus*.

keywords: *Dictamnus dasycarpus* dictamnine obacunone fraxinellone HPLC

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