



中文标题

检索

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HPLC同时测定小柴胡汤中5种有效成分

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中文摘要:目的:建立小柴胡汤中黄芩苷、黄芩素、汉黄芩苷、汉黄芩素和甘草酸的HPLC-PDA测定方法。方法:采用反相高效液相色谱法,Symmetry ShieldTM RP₁₈色谱柱(4.6 mm×250 mm,5.0 μm);流动相乙腈-0.01% 磷酸溶液梯度洗脱;流速0.45 mL·min⁻¹;检测波长251 nm;柱温30 ℃。结果:本方法的准确度、精密度、重复性、专属性和定量线性范围均符合要求;同时测定了小柴胡汤中黄芩苷、黄芩素、汉黄芩苷、汉黄芩素和甘草酸的含量。结论:该方法简便快速、准确可靠,可用于同时测定小柴胡汤中5种有效成分的含量。

中文关键词:小柴胡汤 黄芩苷 黄芩素 汉黄芩苷 汉黄芩素 甘草酸 高效液相色谱法

Simultaneous determination of five active constituents in Xiaochaihu Tang by HPLC

Abstract: Objective: To establish a HPLC-PDA method for the determination of baicalin, wogonoside, baicalin, wogonin and glycyrrhizic acid in Xiaochaihu Tang. Method: A Symmetry ShieldTM RP₁₈ (4.6 mm×250 mm, 5.0 μm) was used with a mobile phase of acetonitrile-0.01% H₃PO₄ in gradient elution. The detection wavelength was 251 nm, the flow rate was 0.45 mL·min⁻¹ and the column temperature was maintained at 30 ℃. Result: The accuracy, precision, sensitivity, specificity and linearity of this method met the requirements. The contents of the five effective fractions were determined simultaneously. Conclusion: The method is rapid, simple and accurate and it can be suitable for the determination of baicalin, wogonoside, baicalin, wogonin and glycyrrhizic acid in Xiaochaihu Tang simultaneously.

keywords: Xiaochaihu Tang baicalin baicalin wogonoside wogonin glycyrrhizic acid HPLC

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