

论文

HPLC测定贯叶金丝桃中黄酮的含量

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摘要:

目的建立同时测定贯叶金丝桃中4种黄酮芦丁、金丝桃苷、扁蓄苷和槲皮素的HPLC分析方法。方法C<sub>18</sub>柱; 流动相A: 水(磷酸调pH 3.1~3.5), B: 乙腈, 梯度洗脱; 流速1.0 mL·min<sup>-1</sup>; 检测波长254 nm。结果线性范围为芦丁1.376~8.256 μg·mL<sup>-1</sup>(γ=0.9999), 金丝桃苷3.160~18.960 μg·mL<sup>-1</sup>(γ=0.9996), 扁蓄苷0.968~5.808 μg·mL<sup>-1</sup>(γ=0.9998), 槲皮素0.776~4.656 μg·mL<sup>-1</sup>(γ=0.9993)。平均加样回收率为芦丁97.8%, RSD(n=3) 4.8%; 金丝桃苷100.7%, RSD(n=3) 4.1%; 扁蓄苷97.3%, RSD(n=3) 0.7%; 槲皮素100.5%, RSD(n=3) 4.4%。4个化合物的精密度RSD(n=5)均<2%, 重现性RSD(n=5)均<3%。结论本方法简单、有效、可行, 可用于贯叶金丝桃黄酮的含量测定。

关键词: 贯叶金丝桃 黄酮 高效液相色谱法

DETERMINATION OF FLAVONOIDS IN *HYPERICUM PERFORATUM* BY HPLC ANALYSIS

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Abstract:

AIMTo establish an HPLC method for simultaneous determination of four flavonoids in *Hypericum perforatum* L., rutin, hyperin, avicularin and quercetin. METHODSC<sub>18</sub> column was used, the chromatography was carried out with a linear gradient program. The mobile phase was A: H<sub>2</sub>O (pH 3.0~3.5 adjusted with phosphoric acid) and B: acetonitrile, at flow rate of 1.0 mL·min<sup>-1</sup>, peaks were detected at 254 nm. RESULTS The linear range of rutin was 1.376~8.256 μg·mL<sup>-1</sup> (γ=0.9999), hyperin 3.160~18.960 μg·mL<sup>-1</sup> (γ=0.9996), avicularin 0.968~5.808 μg·mL<sup>-1</sup> (γ=0.9998) and quercetin 0.776~4.656 μg·mL<sup>-1</sup> (γ=0.9993). The average recovery of rutin was 97.8%, RSD 4.8% (n=3), hyperin 100.7%, RSD 3.7% (n=3), avicularin 97.3%, RSD 0.8% (n=3) and quercetin 100.5%, RSD 4.4% (n=3). All of RSDs of precision were less than 2% (n=5), reproducibilities less than 3%. CONCLUSIONThe method is simple, effective and feasible. It can be used to determine flavonodis in *Hypericum perforatum*.

Keywords: flavonoids HPLC *Hypericum perforatum*

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