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柱前衍生化HPLC法测定积雪草及三金片中积雪草苷的含量

肖隽:车镇涛:毕开顺

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摘要:

目的 建立积雪草中积雪草苷的柱前衍生化高效液相色谱测定法,并用该法测定积雪草和三金片中积雪草苷的含 量。方法 以吡啶一苯甲酰氯为衍生化试剂,对积雪草苷分子中的羟基进行苯甲酰化后,采用RP-HPLC法测定。色 ▶把本文推荐给朋友 谱柱: Spherisorb ODS C₁₈柱; 流动相: 甲醇—四氢呋喃—水(90:4:6,0.1%三乙胺); 柱温: 25℃; 流速:

0.8 ml.min $^{-1}$; 检测波长: 235 nm; 内标物: V_{D3} 。结果 积雪草苷 $0.396\sim3.960~\mu$ g与峰面积比呈线性关系,相关系数为0.9985。用此法对不同产地的积雪草和三金片中积雪草苷进行测定,结果积雪草中积雪草苷的平均回 收率为99.6%, RSD为2.3%(n=6); 三金片中积雪草苷的平均回收率为99.2%, RSD为2.7%(n=6)。结论 此法 ▶ 引用本文 准确、灵敏度高、重现性好,为中药积雪草和中成药三金片的质量评价提供了科学依据。

关键词: 积雪草: 三金片: 积雪草苷: 衍生化: 高效液相色谱法

PRE-COLUMN DERIVATION HPLC METHOD FOR THE DETERMINATION OF ASIATICOSIDE IN CENTELLA ASIATICA AND SANJINPIAN

XIAO Jun; BI Kai-shun; CHE Zhun-tao

Abstract:

AIM To develop a pre-column derivatization HPLC method for the determination of asiaticoside in Centella asiatica samples from different habitats and the traditional Chinese medicine (TCM) recipe Sanjinpian containing Centella asiatica. METHODS The derivatizing reagent was benzoyl chloride in pyridine; the eluent consisted of methanol—tetrahydrofuran—water (90:4:6, 0.1% triethylamine); VD3 served as internal standard. The detection wavelength was set at 235 nm. RESULTS Assay linearity was obtained in the range of 0.396 \sim 3.960 μ g (γ =0.9985). The average recovery of asiaticoside from Centella asiatica and Sanjinpian were 99.6% and 99.2%, respectively. The results suggest that the method developed is suitable for estimating asiaticoside in plant material and Sanjinpian. CONCLUSION This method was accurate, sensitive and reproducible. It offered a scientific basis for the routine assay of Centella asiatica and the TCM recipe Sanjinpian containing Centella asiatica.

Keywords: Sanjinpian asiaticoside derivatization high performance liquid chromatography Centella asiatica

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