

论文

RP-HPLC法测定千金藤属植物中7种生物活性生物碱

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摘要:

用RP-HPLC法测定了中国千金藤属(Stephania)25种植物68个样品中7种生物活性生物碱千金藤定碱、青风藤碱、异紫堇定碱、左旋四氢巴马汀、克斑宁、防己诺林碱和粉防己碱。固定相为ODS,流动相以甲醇—水—三乙胺系统作梯度洗脱,检测波长282nm。本法简便、灵敏、分离度好,并提供了新的考察提取率的方法。根据含量测定的结果,尤其是一些新种的含量结果,为生产和临床扩大药源提供有用的信息。

关键词: 千金藤属 生物碱 高效液相色谱法

DETERMINATION OF 7 BIO-ACTIVE ALKALOIDS IN STEPHANIA PLANTS BY RP-HPLC

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Abstract:

Seven bio-active alkaloids (stepholidine, sinoacutine, isocorydine, l-tetrahydropalmatine, crebanine, fanchinoline and tetrandrine) in Stephania plants were determined by RP-HPLC, using UV detection (282 nm) and gradient elution. The reversed phase system consisted of ODS column and methanol — water — triethylamine as mobile phase. The flow rate was 1.0 ml·min⁻¹. Good linearity between peak heights and concentrations of the alkaloids was obtained in the concentration range. The HPLC method proved accurate, precise and sensitive. The results showed that there were some differences in the occurrence and content of the alkaloids between various species and between the same species from different habitats and collecting time. Based on the results, some species with high content of the 7 bio-active alkaloids were selected. The study provided some useful information for the utilization of medicinal plant resources in the genus Stephania.

Keywords: Alkaloid HPLC Stephania

收稿日期 1997-10-15 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者: 郭济贤

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1. 朱兆仪;冯毓秀;何丽一;王艳春.中国防己科千金藤属药用植物资源利用研究[J]. 药学学报, 1983,18(6): 460-467
2. 冯毓秀;朱兆仪;陈红.防己科千金藤属药用植物的生药形态组织比较[J]. 药学学报, 1983,18(11): 849-861

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