中国实验方剂学杂志
China Journal of Experimental Traditional Medical Formulae

HPLC测定截叶铁扫帚不同药用部位中槲皮素、山柰酚的含量

投稿时间： 2011-07-07 点此下载全文

引用本文：朱晓勤,彭水梅,吴锦忠.HPLC测定截叶铁扫帚不同药用部位中槲皮素、山柰酚的含量[J].中国实验方剂学杂志,2012,18(10):80~83

摘要点击次数: **221**

全文下载次数: **77**

作者	单位	E-mail
朱晓勤	福建中医药大学中西医结合研究院, 福州 350108	
彭水梅	福建中医药大学药学院,福州 350108	
吴锦忠	福建中医药大学中西医结合研究院, 福州 350108	jinzhongfj@126.com

基金项目:福建中医学院服务海西建设重点项目;福建省教育厅科技项目(JA10167)

中文摘要:目的: 建立高效液相色谱法同时测定截叶铁扫帚不同药用部位中槲皮素、山柰酚含量的方法。 方法: 采用Daisogel Sp-ODS-BP C_{18}色谱柱(4.6 mm×250 mm,5 μm),流动相甲醇-0.2%磷酸(63∶37),流速1.0 mL·min^{-1},柱温25 ℃,检测波长360 nm。 结果: 槲皮素在6.25~100 mg·L^{-1}呈良好的线性关系(r=0.999 9),加样回收率100.75%,RSD 1.92%,山柰酚在0.638~20.4 mg·L^{-1}呈良好的线性关系(r=0.999 9),加样回收率为99.76%,RSD 1.99%。根、枝、叶部位槲皮素的平均质量分数分别为9.00,41.79,221.86 μg·g^{-1},山柰酚的平均质量分数分别为3.09,7.52,40.72 μg·g^{-1}。 结论: 该方法简便快速,结果准确可靠,可作为截叶铁扫帚不同药用部位的含量测定方法,为合理开发利用截叶铁扫帚资源提供理论依据。

中文关键词:截叶铁扫帚 槲皮素 山柰酚 含量测定 药用部位

Determination of the Content of Quercetin and Kaempferol from Different Medicinal Parts of *Lespedeza cuneata* by HPLC

Abstract: Objective: To develop a HPLC method for the determination of the content of quercetin and Kaempferol from different medicinal parts of *Lespedeza cuneata*. Method: Samples were analyzed on Daisogel Sp-ODS-BP C_{18}(4.6 mm×250 mm,5 μm),with the mobile phase consisted of methanol-0.20% phosphoric acid solution (63∶37). The flow rate was 1.0 mL·min^{-1}, column tomparature was at 25 ℃. The UV wavelength was set at 360 nm. Result: The linear range of quercetin was 6.25-100 mg·L^{-1}. The average recovery was 100.75% and RSD was 1.92%). The linear range of kaempferol was 0.638-20.4 mg·L^{-1}.The average recovery was 99.76% and RSD was 1.99%. The concent of quercetin in root, branch and leaf was 9.00, 41.79, 221.86 μg·g^{-1}. The concent of kaempferol was 3.09,7.52,40.72 μg·g^{-1}. Conclusion: The method is simple, rapid, accurate and reliable. It can be used as a content determination method for the medicinal parts of *L. cuneata*. It can provide evidence for the rational development and utilization of *L. cuneata*.

keywords:*Lespedeza cuneata* quercetin kaempferol content determination medicinal part

查看全文 查看/发表评论 下载PDF阅读器

地址：北京东直门内南小街16号邮编：100700

电话：010-84076882 在线咨询 京ICP备09084417号