

## HPLC测定截叶铁扫帚不同药用部位中槲皮素、山奈酚的含量

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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、山奈酚含量的方法。方法:采用Daisogel Sp-ODS-BP C<sub>18</sub>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<sup>-1</sup>,柱温25℃,检测波长360 nm。结果:槲皮素在6.25~100 mg·L<sup>-1</sup>呈良好的线性关系( $r=0.9999$ ),加样回收率100.75%,RSD 1.92%,山奈酚在0.638~20.4 mg·L<sup>-1</sup>呈良好的线性关系( $r=0.9999$ ),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<sup>-1</sup>,山奈酚的平均质量分数分别为3.09,7.52,40.72 μg·g<sup>-1</sup>。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 山奈酚 含量测定 药用部位

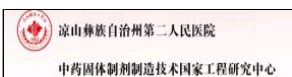
## Determination of the Content of Quercetin and Kaempferol from Different Medicinal Parts of *Lespedeza cuneata* by HPLC

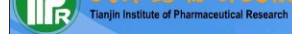
**Abstract:**Objective: To develop a HPLC method for the determination of the content of quercetin and Kaempferol from different medicinal parts of *Lespedeza cuneata*. Method: Samples were analyzed on Daisogel Sp-ODS-BP C<sub>18</sub>(4.6 mm×250 mm,5 μm),with the mobile phase consisted of methanol-0.20% phosphoric acid solution (63 : 37). The flow rate was 1.0 mL·min<sup>-1</sup>, column temperature was at 25℃. The UV wavelength was set at 360 nm. Result: The linear range of quercetin was 6.25-100 mg·L<sup>-1</sup>. The average recovery was 100.75% and RSD was 1.92%). The linear range of kaempferol was 0.638-20.4 mg·L<sup>-1</sup>.The average recovery was 99.76% and RSD was 1.99%. The content of quercetin in root, branch and leaf was 9.00, 41.79, 221.86 μg·g<sup>-1</sup>. The content of kaempferol was 3.09,7.52,40.72 μg·g<sup>-1</sup>. 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](#)


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