

## 北细辛不同提取物中总马兜铃酸的含量测定

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中文摘要:目的:测定北细辛不同提取物中总马兜铃酸的含量,为其临床应用提供实验依据。方法:以水、乙酸乙酯、30%乙醇、50%乙醇、70%乙醇、95%乙醇提取北细辛药材,以马兜铃酸A为对照,采用紫外分光光度法,检测波长为390 nm。结果:马兜铃酸A含量在3.0~30.0 mg · L<sup>-1</sup>与吸光度呈良好线性关系,  $Y=19.844X+0.0272$  ( $r=0.9996$ ),平均回收率为98.51%,RSD 1.32%。北细辛不同提取物中总马兜铃酸的含量为1.34%~3.15%,以水提取物含量最低,95%乙醇提取物含量最高。结论:方法测定结果准确可靠,重复性好,可用于北细辛提取物中总马兜铃酸的含量测定。

中文关键词:[北细辛](#) [提取物](#) [总马兜铃酸](#) [紫外分光光度法](#)

## Determination of Total Aristolochic Acid in Different Extracts of *Asarum heterotropoides*

**Abstract:**Objective: To determine the content of total aristolochic acid in different extracts of *Asarum heterotropoides*, and provide the basis for clinical application of *A. heterotropoides*. Method: *A. heterotropoides* was extracted with water, ethyl acetate, 30% ethanol, 50% ethanol, 70% ethanol and 95% ethanol as extracting solvent. The ultraviolet spectrophotometry was used with aristolochic acid A as the chemical reference. The UV detector wavelength was set at 390 nm. Result: The content of aristolochic acid A showed a linear relation with the spectrophotometric absorbance within the range of 3.0-30.0 mg · L<sup>-1</sup>, and the linear equation was  $Y=19.844X+0.0272$  ( $r=0.9996$ ). The average recovery was 98.51%, and RSD was 1.32%. The total aristolochic acid content varied from 1.34%-3.15%. It was the lowest in the water extract and highest in the 95% ethanolic extract. Conclusion: The method is reliable, accurate and suitable for determining the content of the total aristolochic acid in extracts of *A. heterotropoides*.

**keywords:** [Asarum heterotropoides](#) [extracts](#) [total aristolochic acid](#) [ultraviolet spectrophotometry](#)

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