

HPLC测定地榆鞣质提取物中游离没食子酸的含量

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作者 单位

E-mail

徐佳丽 成都中医药大学,成都 610075

苏柘僮 成都中医药大学,成都 610075

陈龙 成都中医药大学,成都 610075

黄晶 成都中医药大学,成都 610075

杨胜 成都医学院,成都 610083

杨明 成都中医药大学,成都 610075;江西中医学院中药现代制剂教育部重点实验室,南昌 330004 028-61800127

中文摘要:目的:建立一种适于地榆鞣质提取物中游离的没食子酸含量测定的方法,为地榆鞣质的提取工艺和质量标准研究提供参考。方法:采用HPLC,考察色谱条件、样品溶液制备方法、专属性、线形与范围、精密度、稳定性及回收率,并测定样品含量。

结果:确定色谱条件如下,检测波长为272 nm,色谱柱为安捷伦TC-C₁₈(4.6 mm×250 mm,5 μm),流动相为甲醇-0.05%磷酸缓冲液(5:95),流速1.0 mL·min⁻¹,柱温30 °C,进样量10 μL。样品溶液制备方法、专属性、线形与范围、精密度、稳定性及回收率均符合相关要求。样品中没食子酸含量在3.21%~4.05%,均值为3.71%。结论:该法科学、合理、可行,符合简便、快速、准确的要求,为地榆鞣质的相关研究奠定了基础。

中文关键词:[地榆鞣质](#) [没食子酸](#) [高效液相色谱法](#) [含量测定](#)

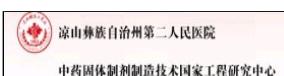
Study on the HPLC Method for Determination of Nomadic Gallic Acid in Diyu Tannin Extract

Abstract: Objective: To found HPLC method for the determination of nomadic gallic acid in diyu tannin extract, then offer some references for the extraction process and quality standard study of diyu tannin. **Method:** The chromatographic condition was investigated. The methods of preparing sample solution, specialization, linearity and linear range, precision, stability, recovery and the content of samples was determined. **Result:** The content of nomadic gallic acid was determined at 272 nm detection wavelength with methyl alcohol-0.05% phosphoric acid aqueous solution(5:95) as mobile phase, the flow rate was 1.0 mL·min⁻¹, and the column temperature was at 30 °C. The methods of preparing sample solution, specialization, linearity and linear range, precision, stability, recovery of this method all met the relative requirements. The content of gallic acid in the preparing sample ranged from 3.21% to 4.05%, the average was 3.71%. **Conclusion:** The results indicated that above-mentioned method was not only scientific, reasonable, feasible, but simple, rapid and accurate as well; what follows next, it can provide the basis for the relative study of tannins.

keywords:[Diyu tannin](#) [gallic acid](#) [hplc](#) [determination](#)

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