



毛茛苳药材不同部位主要活性成分含量

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中文摘要: 目的: 比较毛茛苳根、茎、种子3个部位中绿原酸、秦皮乙素、山萘酚和山萘酚苦素的含量。方法: Inertsil ODS-SP色谱柱(4.6 mm × 250 mm, 5 μm), 流速1.0 mL · min⁻¹, 柱温32 ℃, 流动相甲醇-0.2%甲酸, 0-40 min, 30%-70%甲醇梯度洗脱, 进样量5 μL; 检测波长分别为256, 350, 299和229 nm。结果: 绿原酸、秦皮乙素、山萘酚和山萘酚苦素的回收率分别为98.2%, 99.57%, 100.50%和99.46%, 线性范围分别为0.97-97.2(=1.000), 2.2-88.0(=0.998 9), 21.0-210.0 (r=0.999 8), 和2.6-533.3 mg · L⁻¹(r=1.000), RSD分别为1.6%, 1.5 %, 0.77 %, 2.0%。毛茛苳根山萘酚苦素和山萘酚质量分数分别为0.678 9, 0.752 0 mg · g⁻¹, 而种子中的分别为0.23 9, 0.052 0 mg · g⁻¹, 种子中秦皮乙素、绿原酸的质量分数分别为0.071 0, 0.189 0 mg · g⁻¹, 而根中质量分数分别为0.004 8, 0.004 3 mg · g⁻¹。结论: 本方法准确、快速、简便、重复性好, 为毛茛苳质量控制提供了依据。

中文关键词: 毛茛苳 绿原酸 秦皮乙素 山萘酚 山萘酚苦素 含量比较 高效液相色谱法

Comparative studies in content of major active compositions in different parts of *Cichorium glandulosum*

Abstract: Objective: The four major active compositions, namely esculetin, lactucin, lactucopicrin and chlorogenic acid in seed, stem and root of the *Cichorium glandulosum* Boiss. et Huet that planted in Xinjiang have been quantified by HPLC. Method: HPLC method was used, with Inertsil ODS-SP column(4.6 mm × 250 mm, 5 μm). The flow rate was 1.0 mL · min⁻¹. The column temperature was set at 32 ℃. The mobile phase was methanol-0.2% formic acid, 0-40 min, methanol 30%-70% gradient. Injection volume was 5 μL. The detecting wavelength were 256, 350, 299 and 229 nm, respectively. Result: The percentage recoveries were 98.2%, 99.57%, 100.50%, and 99.46% for chlorogenic acid, esculetin, lactucin, and lactucopicrin, respectively. The correlation coefficients (r) were 1.000, 0.998 9, 0.999 8, 1.000 and RSD were 1.6%, 1.5 %, 0.77 %, 2.0% for chlorogenic acid, esculetin, lactucin, and lactucopicrin, respectively. The contents of the chlorogenic acid, esculetin, lactucin and lactucopicrin were 0.004 8, 0.004 3, 0.678 9, 0.752 0 mg · g⁻¹, respectively in the root, and 0.071 0, 0.189 0, 0.239 6 and 0.052 0 mg · g⁻¹ in the seeds of *C. glandulosum*, respectively. Conclusion: This method was sensitive, rapid and simple, with good linearity, recovery and reproducibility.

Keywords: *Cichorium glandulosum* esculetin lactucin lactucopicrin chlorogenic acid quantitative compare HPLC

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