

目 录

摘 要	错误!未定义书签。
Abstract	错误!未定义书签。
目录	
1 材料试剂与仪器	
1.1 材料、试剂	
1.2 仪器	
2.试验方法	
2.1 云南淫羊藿预处理	
2.2 测定方法依据	
2.3 标准曲线的制作	
2.3.1 配制对照品溶液	
2.3.2 绘制标准曲线	
3.单因素试验	
3.1 乙醇浓度对云南淫羊藿总黄酮提取率的影响	
3.2 液料比对云南淫羊藿总黄酮提取率的影响	
3.3 超声功率对云南淫羊藿总黄酮提取率的影响	
3.4 超声时间对云南淫羊藿总黄酮提取率的影响	
3.5 云南淫羊藿总黄酮提取率计算	
4.方法学考察	
4.1 精密度试验	
4.2 稳定性试验	
4.3 重复性试验	
4.4 加样回收率试验	
5.结果与讨论	
5.1 标准曲线的回归方程	
5.2 方法学验证结果	
5.2.1 精密度试验结果	
5.2.2 稳定性试验结果	
5.2.3 重复性试验结果	
5.2.4 加样回收率试验的结果	
5.3 单因素试验结果	
5.4 云南淫羊藿总黄酮的提取工艺的优化	
6.结论	
参考文献	
致谢	

正交设计优化云南淫羊藿总黄酮提取工艺条件

摘要

目的: 现通过单因素试验为基础选取最优条件进一步设计正交试验, 探索云南淫羊藿总黄酮的最佳提取工艺。**方法** 单因素试验条件选为提取的时间、料液比、乙醇浓度、超声功率四种因素, 指标为云南淫羊藿总黄酮的含量, 分别考察其对于云南淫羊藿总黄酮提取率的影响, 从中选取最佳提取工艺设计正交试验。结果表明正交试验优化后的最优提取工艺为: 乙醇浓度 80%、料液比为 1:10、超声功率 175W、超声时间 40min, 超声时间有较大显著性, 最终正交优化后总黄酮提取率为 5.011%。**结论:** 超声辅助提取具有操作简便、无污染等优点, 提取率较高。

关键词: 云南淫羊藿; 黄酮类化合物; 超声波辅助法; 提取工艺

Optimization Of Extraction Process Conditions Of Total Flavonoids From Epimedium In Yunnan Province By Orthogonal Design

Abstract

Epimedium yunnanensis was used as raw material to extract flavonoids from Epimedium yunnanensis, which had high extraction efficiency and yield. The Extracting from Epimedium yunnanensis was improved. METHODS: Nine orthogonal experiments were conducted to extract flavonoids from Epimedium yunnanensis by selecting the best condition level and designing four factors and three levels. The proportion of the weight of the solid powder to the yunnanensis, the ethanol in the ethanol aqueous solution used, and the time used ultrasonic extraction of total flavonoids by ultrasonic cleaner, the ultrasonic power set by ultrasonic cleaner and the actual operation times of total flavonoids extraction were studied. Taking the ratio of the weight of flavonoids extracted from Epimedium yunnanensis to the quality of total medicinal materials as the comparison condition, the effects of four aspects on the extraction rate of total flavonoids were studied separately, and the extraction conditions with the highest extraction rate were selected. The results : 80% ethanol and the weight of Epimedium yunnanensis to volume of ethanol solution was 1:10, the ultrasonic power was set to 175W, the extraction time was 40 minutes, and the ultrasonic time was conspicuousness.. total flavonoid content 5.011%.

Keywords: Yunnan epimedium; flavonoids; ultrasonic auxiliary method; extraction Process

第1章

以上内容仅为本文档的试下载部分，为可阅读页数的一半内容。如要下载或阅读全文，请访问：

<https://d.book118.com/505223144104012010>

第2章