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鱼腥草抗补体活性多糖的制备工艺研究

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作者中 文名	作者英文名	单位中文名	单位英文名	E-Mail
			Department of Pharmacognosy, School of Pharmacy, Fudan University, Shanghai 201203, China	
卢燕	LU Yan		Department of Pharmacognosy, School of Pharmacy, Fudan University, Shanghai 201203, China	luyan@fudan.edu.cn
	CHEN Daofeng		Department of Pharmacognosy, School of Pharmacy, Fudan University, Shanghai 201203, China	dfchen@shmu.edu.cn

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中文摘要:目的:建立鱼腥草中抗补体活性多糖的整套制备工艺。 方法:以多糖得率和经典抗补体活性为综合指标,利用正交试验 中文演要:目的: 建立值原早中近补体高性多糖的整套制备工艺。 方法: 以多糖得率和绘集机补体高性为综合指标-利用正交试验 确定值歷草点社多糖的最佳是现工艺和最佳情况条件以适合消除率和老熊原理书为综合指标品并与综合指标品工艺力于20倍水。90℃下煎煮3次、每次 包裹去除率和多糖损失率为综合指标。利用正交试验优化最佳版色工艺。 结果: 最佳制备工艺为于50倍水。90℃下煎煮3次、每次 21-结构建取离浓缩至相当于每毫升412 g生态,加入4倍体和的90%。即弗曾至24 h;离心支上清液,沉淀依次用无水乙醇、丙醇、无水 施洗涤。再用水发海一发海流中加入二氢之股牵条按皮为20%的运行;50℃。613、30%。结性数下的850 mixe的。采用该工艺制备 三批鱼展草抗补格活性多糖。多糖得率平均为4.03%(RSD 0.96%)。排尿量分类平均为5.097%(RSD 1.5%)。蛋白质量分量平均为2.02% $(RSD\ 2.3\%)$,补体抑制活性的 CH_{50} 平均为 $0.079\ g \cdot L^{-1}(RSD\ 3.6\%)$ 。 结论:本实验系统建立的工艺稳定可靠,所得多糖的糖含量高、 活性强,适合鱼腥草抗补体活性多糖的大量制备。

中文关键词:鱼腥草 多糖 抗补体 提取 醇沉 除蛋白 脱色

Preparation procedures of anti-complementary polysaccharides from Houttuynia cordata

Abstract: Objective: To establish and optimize the preparation procedures of the anti-complementary polysaccharides from Houttuynia AbstractObjective: To establish and optimize the preparation procedures of the anti-complementary polysaccharides from Hontunynia cordata. Method: Based on the yield and anti-complementary activity in vitra, the conditions of extraction and alcohol precipitating process were optimized by orthogonal tests. The optimal condition of deproteinization was determined according to the results of protein removed and polysaccharides maintained. The best decoloring method was also optimized by orthogonal experimental edispit Result: The optimized preparation procedures were given as follows: extract the coarse powder 3 times with 50 times volume of water at 90℃ for 2 hours every time, combine the extracts and concentrate appropriately, equivalent to 0.12 g of H. condata per millilities. Add 4 times volume of 90% ethanol to the extract, allow to stand for 24 hours to precipitate to totally, filter and the precipitate was successfully washed with anhydrous alcohol, acetone and anhydrous ether. Resolve the residue with water, add trichloroacetic acid(TCA)to a concentration of 20% the option of 3% with activated earthon at pld 30, 50 ℃ for 50 min. The above procedures above were tested 3 times, resulting in the average yield of polysaccharides at 4.03% (RSD 0.96%), the average concentrations of polysaccharides. and protein at 80.97% (RSD 1.5%) and 2.02% (RSD 2.3%), and average CH_{50} at 0.079 g • L^{-1} (RSD 3.6%). Conclusion: The established and optimized procedures are repeatable and reliable to prepare the anti-complementary polysaccharides with high quality and activity from *H. cordata*.

 $\underline{\textbf{keywords:}} \underline{\textit{Houttuynia cordata}} \hspace{0.1cm} \underline{\textit{polysaccharide}} \hspace{0.1cm} \underline{\textit{anti-complementary}} \hspace{0.1cm} \underline{\textit{extraction}} \hspace{0.1cm} \underline{\textit{ethanol precipitation}} \hspace{0.1cm} \underline{\textit{deproteinization}} \hspace{0.1cm} \underline{\textit{decoloration}}$

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