

响应面分析法优化牛蒡根多糖提取工艺

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中文摘要:目的:优化牛蒡根多糖的提取工艺。方法:采用水提醇沉法提取多糖,以多糖得率为考察指标;采用响应面分析法研究影响牛蒡根多糖测定的因素,以多糖提取率为响应值作响应面和等高线。结果:牛蒡多糖提取工艺的最佳条件为料液比 1:14.43,浸提温度84.85 °C,浸提时间3.81 h。此条件下,牛蒡多糖的提取率为6.16%。结论:该优选工艺稳定、可行。

中文关键词:[牛蒡根 多糖 提取 响应面分析法](#)

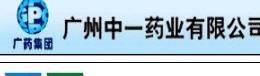
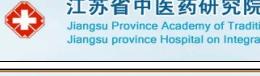
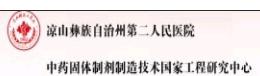
Optimization of Extraction Technology for Polysaccharide from Roots of *Arctium lappa* by Response Surface Methodology

Abstract:Objective: To optimize extraction technology of polysaccharide from roots of *Arctium lappa*. Method: Polysaccharide was extracted by water extraction and alcohol precipitation method with yield of polysaccharide as index;Response surface methodology was used to study on influencing factors of determination of polysaccharide from roots of *A. lappa*,response surface and contour were made with extract ratio of polysaccharide as response value. Result: Optimum extraction technology conditions were solid-liquid ratio of 1 : 14.43, extraction temperature 84.85 °C,extracting time 3.81 h.Under these conditions,yield of polysaccharide from roots of *A. lappa* was 6.16%. Conclusion: This optimized technology was stable and feasible.

keywords:[roots of *Arctium lappa* polysaccharide extraction response surface methodology](#)

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