

大孔树脂分离纯化栀子提取液中栀子苷的工艺优选

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中文摘要:目的:研究大孔树脂分离纯化栀子提取液中栀子苷的最佳工艺条件。方法:以吸附-洗脱量、吸附-洗脱率为指标,利用静态吸附-洗脱试验对8种大孔树脂进行优选,通过静态-动态吸附-洗脱的单因素试验筛选树脂分离纯化栀子苷的最佳工艺条件。结果:X-5型大孔树脂的分离纯化效果最好,其最佳纯化条件为样品质量浓度为 $20.00 \text{ g} \cdot \text{L}^{-1}$,温度 $25 \text{ }^\circ\text{C}$,pH 5.0,洗脱剂为60%乙醇,动态吸附流速 $2.0 \text{ BV} \cdot \text{h}^{-1}$,样品溶液上样量 3.0 BV ,动态洗脱流速 $3.0 \text{ BV} \cdot \text{h}^{-1}$,洗脱剂用量 7.5 BV 。结论:优选的方法稳定可行,值得推广应用。

中文关键词:大孔树脂 栀子苷 分离纯化工艺 栀子

Optimization of Separation and Purification Technology for Gardenoside from Extraction Liquid of *Gardenia jasminoides* by Macroporous Resin


Abstract:Objective: To study on optimum separation and purification technology conditions of genidenoside from extraction liquid of *Gardenia jasminoides* by macroporous resin. Method: With adsorption-elution volume, adsorption-elution rate as indexes, eight kinds of macroporous resins were selected by adsorption and desorption test, optimum separation and purification technology conditions of genidenoside was investigated by single factor test of static-dynamic adsorption and desorption. Result: X-5 type macroporous resin had the best effect of separation and purification, its optimum separation and purification technology conditions were: the concentration of sample liquid $20.00 \text{ g} \cdot \text{L}^{-1}$, temperature $25 \text{ }^\circ\text{C}$, pH 5.0, eluent of 60% ethanol, flow rate of dynamic adsorption $2.0 \text{ BV} \cdot \text{h}^{-1}$, sample solution volume 3.0 BV , flow rate of dynamic desorption $3.0 \text{ BV} \cdot \text{h}^{-1}$, eluent volume 7.5 BV . Conclusion: This optimized method was feasible and reliable, it should be widely applied.

keywords: macroporous resin genidenoside separation and purification technology *Gardenia jasminoides*

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