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# 甘草黄酮分离纯化工艺

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中文摘要:目的: 筛选具有酪氨酸酶抑制作用的甘草黄酮分离、纯化工艺。 方法: 以甘草总黄酮含量及酪氨酸酶抑制率为指标,对甘草黄酮分离纯化工艺进行优化,同时考察不同分离条件对其酪氨酸酶抑制活性的影响。 结果: 甘草黄酮的最佳分离纯化工艺为30~60目聚酰胺,上样液pH 6,料液比(甘草黄酮粗提物-聚酰胺)32.48∶1,上样液质量浓度3.215 g·$L^{-1}$,洗脱剂乙醇体积分数70%,洗脱流速3 mL·$min^{-1}$·$g^{-1}$,洗脱剂用量1 BV。 结论: 采用该优选工艺成本低,收率高,安全,操作简便,适合工业化大生产。

中文关键词:甘草黄酮 酪氨酸酶 聚酰胺 分离纯化

## Separation and Purification Process of Total Flavonoids from *Glycyrrhiza uralensis*

**Abstract:**Objective: To select separation and purification technology for total flavonoids from *Glycyrrhiza uralensis* that have inhibitory action on tyrosinase. Method: With the content of total flavonoids and tyrosinase inhibitory rate as indexes,separation and purification technology of total flavonoids from *G. uralensis* was optimized, and effect of different separation conditions on tyrosinase inhibitory rate were investigated in the same time. Result: Optimal separation and purification process for total flavonoids was:polyamide was 30~60 mech, pH of sample solution was 6,solid-liquid ratio 32.48∶1(extract of total flavonoids from *G. uralensis*-polyamide), the concentration of sample solution was 3.215 g·$L^{-1}$,desorption solvent was 70% ethanol,desorption velocity was 3 mL·$min^{-1}$·$g^{-1}$,and elution volume was 1 BV. Conclusion: This optimized technology had advantages of low cost,high yield,safe,easy to operate.It was suitable for industrial production.

**keywords:**total flavonoids from *Glycyrrhiza uralensis* tyrosinase polyamide separation and purification

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