

## 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<sup>-1</sup>,洗脱剂乙醇体积分数70%,洗脱流速3 mL · min<sup>-1</sup> · g<sup>-1</sup>,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](#)

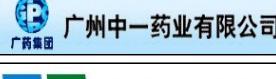
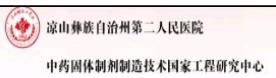
## Separation and Purification Process of Total Flavonoids from *Glycyrrhiza uralensis*

**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<sup>-1</sup>, desorption solvent was 70% ethanol, desorption velocity was 3 mL · min<sup>-1</sup> · g<sup>-1</sup>, 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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