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红花总黄酮大孔树脂纯化工艺

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中文摘要：目的：研究大孔树脂精制红花总黄酮的工艺条件。方法：以红花总黄酮吸附率与解析率为指标,考察6种不同型号的大孔树脂对红花总黄酮的吸附与解析能力,确定AB-8为最佳树脂。对AB-8大孔树脂的纯化条件进行优化。结果：最佳工艺条件为以50 g·L^{-1}的质量浓度(药液pH 2.0)、4 BV·h^{-1}的流速上样,药液最佳上样体积为3.3 BV(树脂量),以3 BV 30%乙醇2 BV·h^{-1}的速率洗脱。经AB-8处理后的红花总黄酮纯度达54.04%,羟基红花黄色素A纯度达28.76%,分离效果良好。结论：AB-8型大孔吸附树脂能较好地纯化富集红花总黄酮。

中文关键词：红花　总黄酮　大孔树脂

Purification Technology of Total Flavonoids from *Carthamus tinctorius* by Macroporous Resin

Abstract: Objective: To study on purification technology conditions of total flavonoids from *Carthamus tinctorius* by macroporous resin. Method: Absorption rate and desorption rate of total flavonoids were taken as indexes, investigated absorption and desorption ability of 6 different types macroporous resin to safflower flavonoids, determined AB-8 was optimum macroporous resin. Purification conditions of AB-8 macroporous resin were optimized. Result: Optimum technology conditions were as follows: liquid concentration was 50 g·L^{-1} (pH 2), flow rate of sample was 4 BV·h^{-1}; eluted with 3 BV the amount of 30% ethanol by speed of 2 BV·h^{-1}. After purified with AB-8 macroporons resin, purity of total flavonoids was up to 54.04%, purity of hydroxysafflor yellow A was up to 28.76%, separation effect was good. Conclusion: AB-8 resin was fit for separating and purifying of total flavonoids from safflower.

keywords: *Carthamus tinctorius*　total flavonoids　macroporous resin

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