

## 荔枝黄酮提取和大孔树脂分离及其组分的HPLC分析

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中文摘要:目的:研究荔枝黄酮提取分离工艺及其产物黄酮组分构成。方法:采用紫外吸收芦丁标准曲线法测定荔枝黄酮含量,比较乙醇水溶液和酸化乙醇水溶液提取荔枝黄酮效果,优化大孔树脂分离荔枝黄酮粗提物,采用HPLC图谱法分析荔枝黄酮提取分离产物的黄酮组分。结果:采用紫外吸收芦丁标准曲线法检测荔枝黄酮含量方法简便、有效;70%乙醇水溶液提取荔枝黄酮较其酸化溶液有更好的提取效果,且粗提物黄酮组分更简单,该法提取荔枝皮黄酮粗提物得率达到(92.5±2.0)%,纯度(28.7±1.8)%;在比较的6种大孔树脂中,AB-8分离荔枝黄酮效果最好,以80%乙醇水溶液为洗脱剂分离荔枝黄酮,得率为(86.5±2.1)%,纯度达到(68.6±1.5)%。结论:采用70%乙醇水溶液提取结合大孔树脂AB-8分离荔枝黄酮工艺简单而有效。

中文关键词:荔枝 黄酮 提取分离 大孔树脂 高效液相色谱

## Litchi Flavonoid Extraction and Separation with Macroporous Resins and the Constituents Analysis with HPLC

**Abstract:**Objective: To research the technologies of Litchi flavonoid separation and the flavonoid constituents. Method: The flavonoid content was detected with rutin as the standard reference by UV absorption, comparisons of the flavonoid extraction effects with ethanol and its acidification solutions were conducted, the technologies of litchi flavonoid separation with macroporous resin were optimized, and the flavonoid constituents of the extraction and separation products were analyzed with HPLC graph. Result: The UV absorption method to detect Litchi flavonoid content was simple and workable; the extraction effect of 70% of ethanol solution was better than its acidification solution, the flavonoid constituent was simpler than the acidification one, and its recovery rate and purity reached (92.5±2.0)% and (28.7±1.8)% respectively. Resin AB-8 had the best effect of flavonoid separation among the 6 macroporous resins, the recovery rate and the purity of the separated product with the eluant of 80% ethanol solution were (86.5±2.1)% and (68.6±1.5)% respectively. Conclusion: The technology of extraction with 70% ethanol followed by separation with resin AB-8 to extract and separate Litchi flavonoid was simple and workable.

**keywords:** [litchi](#) [flavonoid](#) [extraction and separation](#) [macroporous-resin](#) [HPLC](#)

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