



藏药“甲蒂(印度獐牙菜)”中龙胆苦苷和獐牙菜苷等10种成分的含量测定与质量评价

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中文摘要: 目的: 建立印度獐牙菜中龙胆苦苷、獐牙菜苷、芒果苷等10种成分的含量测定方法, 确定其含量测定指标成分及其限量标准。方法: 用Welch materials AQ-C₁₈色谱柱, 以甲醇和0.4%甲酸溶液为流动相进行梯度洗脱, 柱温30℃, 流速1.0 mL·min⁻¹, 检测波长254 nm。结果: 线性关系良好, 精密度高, 重复性好, 回收率在97%~103%; 市场商品中各成分含量变异较大。结论: 该方法简便、灵敏、重复性好, 适用于印度獐牙菜中各主要成分的含量测定; 建议以獐牙菜苷和芒果苷作为“甲蒂(印度獐牙菜)”的含量测定指标成分, 其含量限量分别为不得低于0.1%、0.3%。

中文关键词: 藏药 甲蒂 印度獐牙菜 HPLC 含量测定 含量限量

Determination and quality assessment of 10 ingredients gentiopicroside and sweroside and so on in Tibetan medicine Jia Di(*Swertia chirayita*)

Abstract: Objective: To establish a method for determination of 10 ingredients such as gentiopicroside, sweroside, and mangiferin in India swertia, and settle the index components and their limits. **Method:** By Welch materials AQ-C₁₈ column, determination was conducted by the gradient elution with methanol and 0.4% formic acid as mobile phase, with column temperature 30℃, flow rate at 1.0 mL·min⁻¹, and 254 nm as the detection wavelength. **Result:** The linear relatives of 10 ingredients were good. The method showed the high precision and good reproducibility, and recovery rates were between 97% and 103%. The ingredients of market commodities varied greatly. **Conclusion:** This method is simple, sensitive, reproducible, and applicable to the determination of the main ingredients in India Swertia. Sweroside and mango glycosides were suggested as the index components for determination in Jia Di (*Swertia chirayita*), and their content limits are not less than 0.1%, 0.3%, respectively.

Keywords: Tibetan medicine; Jia Di; *Swertia chirayita*; HPLC; determination; limited content

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