



中文标题 检索 药刊检索

HPLC同时测定人参药材中12种人参皂苷的含量

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中文摘要: 目的: 建立HPLC测定人参药材中12种人参皂苷含量的方法。方法: 采用Luna NH₂色谱柱(4.6 mm×150 mm, 5 μm); 流动相为乙腈-水梯度洗脱, 流速1.0 mL·min⁻¹, 检测波长203 nm, 柱温为室温。结果: 12种人参皂苷(Rh₂, Rh₁, Rg₂, Rg₃, Rg₁, Rf, Rc, Rd, Rc, Rb₂, Rb₁, Rb₃)在60 min内达基线分离, 线性关系良好($r \geq 0.9995$)。加样回收率分别为98.1%, 95.3%, 96.1%, 95.6%, 97.3%, 98.6%, 98.0%, 96.4%, 96.1%, 97.6%, 96.8%, 96.9% (RSD ≤ 3%)。结论: 该方法简便、快速, 可作为人参药材质量控制指标。

中文关键词: 人参 人参皂苷 HPLC 含量测定

Determination of twelve ginsenosides in *Panax ginseng* by HPLC

Abstract: Objective: To determine the contents of twelve ginsenosides in the root of *Panax ginseng* by HPLC. Method: The analysis is carried out at room temperature on a Luna NH₂ column (4.6 mm×150 mm, 5 μm) eluted with acetonitrile and water as the mobile phases in a gradient elution. The flow-rate was 1.0 mL·min⁻¹, the detection wavelength was 203 nm. Result: Twelve ginsenosides (Rh₂, Rh₁, Rg₂, Rg₃, Rg₁, Rf, Rc, Rd, Rc, Rb₂, Rb₁, Rb₃) were separated at baseline within 60 min with good linearity ($r \geq 0.9995$). The recovery rates were 98.1%, 95.3%, 96.1%, 95.6%, 97.3%, 98.6%, 98.0%, 96.4%, 96.1%, 97.6%, 96.8%, 96.9% (RSD ≤ 3.0%). Conclusion: The method was simple, fast and could control the quality of *P. ginseng* effectively.

keywords: *Panax ginseng* ginsenosides HPLC assay

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