



石柱参中8种人参皂苷的含量测定

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中文摘要: 目的: 测定石柱参中8种人参皂苷Rg₁, Re, Rf, Rg₂, Rb₁, Rc, Rb₃, Rd的含量, 并建立同时测定8种人参皂苷含量的方法。方法: 采用HPLC Agilent TC-C18色谱柱(4.6 mm × 150 mm, 5 μm), 流动相乙腈-0.05%磷酸水, 梯度洗脱, 体积流量1 mL · min⁻¹, 柱温30 °C, 检测波长203 nm。结果: 8种人参皂苷Rg₁, Re, Rf, Rg₂, Rb₁, Rc, Rb₃, Rd质量分数分别为1.32, 2.08, 0.72, 0.24, 2.12, 1.06, 0.35, 0.55 mg · g⁻¹。结论: 首次对石柱参药材中的人参皂苷进行了含量测定, 所建立的方法分离度高, 方法学验证符合要求, 可作为参类药材同时测定8种人参皂苷含量的方法。

中文关键词: 石柱参 人参皂苷 HPLC 含量测定

Determination of eight kinds of ginsenosides in Shizhu ginseng

Abstract: Objective: To establish the method for determining simultaneously eight kinds of ginsenoside Rg₁, Re, Rf, Rg₂, Rb₁, Rc, Rb₃ and Rd and their contents in Shizhu ginseng. Method: HPLC was carried out on Agilent TC-C₁₈(4.6 mm × 150 mm, 5 μm) with acetonitrile - 0.05% phosphoric acid, gradient elution, the volume of flow 1 mL · min⁻¹, column temperature 30 °C and detection wavelength 203 nm. Result: The contents of eight kinds of ginsenosides in Shizhu ginseng were 1.32, 2.08, 0.72, 0.24, 2.12, 1.06, 0.35, 0.55 mg · g⁻¹, respectively. Conclusion: The contents of ginsenoside ingredients in Shizhu ginseng were determined in the first time. The established method can be used in determining the contents of multiple ginsenosides in herb ginseng simultaneously.

keywords: Shizhu ginseng ginsenosides HPLC determination

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