

仿刺参中皂苷类成分的高效液相色谱指纹图谱

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High performance liquid chromatographic fingerprints of triterpene glycosides from *Stichopus japonicus*

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摘要 利用高效液相色谱法建立了仿刺参皂苷类成分的指纹图谱,为仿刺参的质量控制提供了新的方法。采用固相萃取制备供试品溶液,选用 Zorbax SB-C18 色谱柱(250 mm×4.6 mm, 5 μm),以乙腈-0.1%磷酸水溶液为流动相进行梯度洗脱,检测波长为205 nm,柱温30 ℃。分析了不同产地的10批仿刺参样品,采用国家药典委员会推荐的“中药色谱指纹图谱相似度评价系统(2004 A版)”处理谱图,确定了6个共有峰。计算了10个样本间的指纹图谱相似度,所得相似度计算结果均大于0.97。该方法具有良好的稳定性和重现性,可用于仿刺参的质量控制。

关键词: 高效液相色谱法 皂苷 指纹图谱 仿刺参

Abstract: The fingerprint chromatograms of triterpene glycosides in *Stichopus japonicus* were established for its quality control. The samples were prepared by solid phase extraction (SPE). The analysis was performed on a Zorbax SB-C18 column (250 mm×4.6 mm, 5 μm) with acetonitrile-water (containing 0.1% phosphoric acid) as mobile phase at a flow rate of 1.0 mL/min, and at a column temperature of 30 ℃. The detection wavelength was set at 205 nm. Ten different original samples were analyzed, and 6 peaks were identified as common fingerprint peaks using the similarity evaluation system for the chromatographic fingerprint of traditional Chinese medicine (TCM) recommended by State Pharmacopoeia Committee of China (Version 2004 A). The similarities of the fingerprints were all greater than 0.97. The method is proved to be stable and repeatable and can be utilized as a quality control for *S. japonicus*.

Keywords: high performance liquid chromatography (HPLC) triterpene glycoside fingerprints *Stichopus japonicus*

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