

论文

远志药材的HPLC指纹图谱

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摘要:

目的研究并建立远志药材的指纹图谱。方法采用反相高效液相色谱法, Kromasil C₁₈ 色谱柱, 乙腈-0.05%磷酸水溶液梯度洗脱, 流速1.0 mL·min⁻¹, 检测波长318 nm, 建立了远志药材的指纹图谱, 并对14个不同来源的商品药材进行了检测。另外, 利用指纹图谱技术对不同商品和不同加工方法的远志药材进行了比较。结果14批不同来源的商品远志药材指纹图谱相似度较高, 并且利用“中药色谱指纹图谱相似度评价软件”生成了远志药材的对照指纹图谱, 共有29个色谱峰, 各色谱峰的分离较好, 符合指纹图谱检测要求。结论采用HPLC指纹图谱技术可以有效地控制远志药材的质量。

关键词: 远志 高效液相色谱法 指纹图谱

Fingerprint of *Polygala tenuifolia* by high performance liquid chromatography

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Abstract:

AimTo study and establish the fingerprint of *Polygala tenuifolia* by RP-HPLC. Methods The fingerprint of *P. tenuifolia* was built by using Kromasil C₁₈ as column and acetonitrile-0.05% phosphoric acid aqueous in gradient as mobile phase. The flow rate was 1.0 mL·min⁻¹, and the detecting wavelength was set at 318 nm. Total 14 batches of *P. tenuifolia* from different habitats were detected, and different commodities and preparative methods were compared. ResultsSamples from different habitats were of high similarities, and the qualities of “yuanzhitong” and “yuanzhirou” were better than that of “yuanzhigun”, while the fingerprints of *P. tenuifolia* with different preparative methods have not obvious differences. Moreover, the standard fingerprint of *P. tenuifolia* was originated from the “Computer Aided Similarity Evaluation” software, and 29 common peaks existed in the fingerprint. Each peak in the fingerprint was separated very well under the above chromatographic condition, with good accuracy, stability and repeatability, satisfied to the requests of fingerprint. ConclusionThe RP-HPLC fingerprint method can be used in the quality control of *P. tenuifolia*.

Keywords: HPLC fingerprint *Polygala tenuifolia*

收稿日期 2005-04-19 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者: 屠鹏飞

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参考文献:

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