

鱼腥草中黄酮类成分的高效液相色谱指纹图谱分析

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High performance liquid chromatographic fingerprint analysis of flavonoids from *Houttuynia cordata* Thunb.

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摘要 采用均匀实验设计和信息理论评价方法,建立了鱼腥草中黄酮类成分的高效液相色谱(HPLC)指纹图谱的分析方法。采用建立的方法和本研究室提出的指纹图谱评价软件,对同样种植条件下10个批次的鱼腥草指纹图谱进行了相似性评价,相似度均大于0.90;同时测定了芦丁、槲皮素和槲皮素3个成分在10批鱼腥草药材中的含量分别为0.25%~0.34%、0.27%~0.37%、0.012%~0.016%。另外对不同采收季节和不同部位的鱼腥草药材中的黄酮类成分进行了指纹图谱的测定、主成分分析以及成分含量测定,结果表明,不同季节、不同部位的鱼腥草中黄酮类化合物的指纹图谱及成分含量存在较大的差异,且药用部位的差异大于采收季节的差异。该方法为规范鱼腥草中黄酮类成分在制药和用药的实际应用提供了一些可靠的基础信息。

关键词: 高效液相色谱 指纹图谱 黄酮 鱼腥草

Abstract: The method of high performance liquid chromatographic (HPLC) fingerprint analysis for flavonoids from *Houttuynia cordata* Thunb. was established with uniform experimental design and information theory evaluation. The fingerprint similarity of 10 batches of *Houttuynia cordata* Thunb., which were planted under the same cultivation conditions, was evaluated with the developed method and the fingerprint evaluation software proposed by our laboratory. The similarity was greater than 0.90. The contents of rutin, quercitrin and quercetin were 0.25%~0.34%, 0.27%~0.37% and 0.012%~0.016%, respectively. Furthermore, obvious difference was observed among the fingerprints of three kinds of flavonoids produced from different seasons and different parts through principal component analysis and content determination, and the difference from medicinal parts was greater than that from season. This method provide reliable basic information for the specification of flavonoids from *Houttuynia cordata* Thunb. in the pharmaceutical and medicinal practical application.

Keywords: high performance liquid chromatography (HPLC) fingerprint flavonoids *Houttuynia cordata* Thunb.

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