

论文

柴胡属19种植物挥发油的气相色谱——相对保留值的指纹分析

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摘要:

本文首次利用气相色谱的定性参数——相对保留值建立了柴胡属19种植物挥发油的GC指纹谱,并根据指纹谱中色谱峰的重叠率和八强峰进行分析对比研究。结果表明同属不同种植物的指纹谱、重叠率和八强峰各不相同。因此,本文认为该法可以为植物品种的鉴定以及为新种的确立提供有益的信息,并为GC在分析复杂组分的样品方面开拓了新的应用。本法优点:简单易行、无需标准品、色谱峰利用率高、可比性强。

关键词: 柴胡 挥发油 气相色谱 气相色谱—指纹谱

THE FINGERPRINT SPECTRUM ANALYSIS OF GC RELATIVE RETENTION VALUES FOR ESSENTIAL OIL OF 19 SPECIES OF BUPLEURUM GENUS

XK Hong; ZH Wang; JX Guo and Y Li

Abstract:

It is for the first time that the fingerprint spectrum of essential oil of 19 species of *Bupleurum* genus is established by GC relative retention times, and according to the overlap ratio of peaks and eight strong peaks in the fingerprint spectrum, their comparative study is achieved. The results point out that the fingerprint spectrum, overlap ratio and eight strong peaks are different from each other in various species of the same genus. Hence, this method provides useful informations for identification of plant species and verification of new species. It is a development for application of GC in sample analysis of complex components. This method has some advantage as follows: easy to operate, standard compound unnecessary, high utilization ratio for chromatographic peaks and good comparison.

Keywords: Essential oil Gas chromatography GC-fingerprint spectrum Chaihu (*Bupleurum chinense* DC.)

收稿日期 1987-08-14 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

作者简介:

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