

食品科学

木槿花挥发油化学成分的GC/MS分析

蔡定建, 戎 敢, 靖青秀, 钟洪鸣, 刘 慧

江西理工大学材料与化学工程学院

摘要:

摘 要: [目的] 研究江西赣南红壤土产木槿花挥发油的化学成分。[方法] 采用国家药典法-水蒸汽蒸馏法提取其挥发油, 利用GC—MS联用仪对木槿花挥发油的化学成分进行分离鉴定, 用峰面积归一化法确定各成分的相对含量。[结果] 挥发油含量为0.1107g/100g, 共分离出90种化合物。鉴定了其中的43个。[结论] 木槿花挥发油的主要化学成分中, Tridecanoic acid 59.08%、9,10-Octadecadienoic acid(z,z)- 4.43%、Oleic acid 4.04%、Heneicosane 3.18%等的含量较高。为医学临床应用和自然资源的开发提供了科学参考。

关键词: 关键词: 木槿花 挥发油; GC-MS; Tridecanoic acid

GC/MS Analysis on Composition of the essential oil from Hibiscus Syriacus L.

Abstract:

Abstract: [Pupose] Research the chemical constituents of Hibiscus syriacus L and Essential oil on local red Jiangxi Gannan. [Methods] using the states Pharmacopoeia method-steam distillation to extract the Essential oil of Chemical constituents, Using GC-MS to the chemical constituents of Hibiscus syriacus L and Essential oil for Isolation and Identification, use the Peak area normalization method to determine the relative content of each component. [Result] Essential oil content is 0.1107g/100g, Isolated from 90 kinds of compounds., identified 43 kinds. [Conclusion] in the main chemical components of Hibiscus syriacus L and Essential oil, Tridecanoic acid 59.08% ,9,10-Octadecadienoic acid (z, z) - 4.43%, Oleic acid 4.04%, Heneicosane 3.18% with a high level and etc. Clinical application of medical and natural resources development to provide a scientific reference.

Keywords: Key Words: Hibiscus syriacus L Essential oil; GC-MS; Tridecanoic acid

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通讯作者: 蔡定建

作者简介:

作者Email: caidingjian@126.com

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- ▶ Tridecanoic acid

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