

两产地罗勒挥发油化学成分比较

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中文摘要:目的: 比较分析广东广州与安徽亳州产罗勒挥发油化学成分差异。方法: 用水蒸气蒸馏法提取罗勒挥发油,用气相-质谱联用仪(GC-MS)对挥发油成分进行分析,并通过峰面积归一化法计算各成分的相对百分含量;采用薄层色谱法进行比较分析。结果: 广州产罗勒挥发油鉴定出29种化合物,并确定了其相对含量,占总含量的99.90%,主成分为对烯丙基茴香醚(83.082%)、芳樟醇(4.734%)、 τ -杜松醇(2.715%)、桉叶油素(2.251%)。亳州产罗勒挥发油鉴定出31种化合物,并确定了其相对含量,占总含量的98.65%,主成分为芳樟醇(26.909%)、肉桂酸甲酯(21.85%)、 τ -杜松醇(17.411%)、喇叭茶醇(14.154%);薄层色谱显示广州产罗勒挥发油比亳州产者多了2个特征斑点。结论: 产地对罗勒挥发油化学成分具有显著影响,气质联用和薄层色谱法均可用于罗勒挥发油的鉴别和产地分析,提示罗勒开发利用应明确品质产地。

中文关键词:罗勒 挥发油 气质联用 薄层色谱法

Studies on Chemical Constituents of Volatile Oil of *Ocimum basilicum* from Two Different Sources

Abstract:Objective: To analyze the chemical constituents of volatile oil from *Ocimum basilicum* collected in two different sources. Method: The volatile components were extracted by steam distillation method, and analyzed by GC-MS. Peak area normalization method was used for the relative content of volatile oil. TLC was used for the identification of two samples. Result: Twenty-nine components were identified in *O. basilicum* from Guangzhou, which accounted for 99.90% of the total relative content. The main components were p-allylanisole (83.082%), linalool 4.734%, tau-cadinol (2.715%), eucalyptol (2.251%). Thirty-one components were identified in *O. basilicum* from Bozhou, which accounted for 98.65% of the total relative content. The main components were linalool (26.91%), methyl cinnamate (21.85%), tau-cadinol (17.41%), ledol (14.154%). Two characteristic spots could not be identified in *O. basilicum* from Bozhou but from Guangzhou. Conclusion: The volatile oil from different sources had obviously different chemical constituents. GC-MS and TLC can be used for the identification and analysis of sources. It pointed out that *O. basilicum* should clear about its quality and sources before exploitation and application.

keywords: *Ocimum basilicum* volatile oil GC-MS TLC

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