

水蒸气蒸馏与超临界CO₂萃取香胶木叶挥发油化学成分的GC-MS分析

投稿时间: 2010/11/2 [点此下载全文](#)

引用本文: 周燕园. 水蒸气蒸馏与超临界CO₂萃取香胶木叶挥发油化学成分的GC-MS分析[J]. 中国实验方剂学杂志, 2012, 18(2):116~118

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中文摘要:目的: 考察水蒸气蒸馏法(SD)和超临界萃取法(SFE-CO₂)得到的香胶木叶挥发油化学成分差别。方法: 用GC-MS对香胶木叶挥发油进行测定, 并用色谱峰面积归一化法测定各成分的相对百分含量。结果: SD获得挥发油中分离出33个峰, 鉴定了其中19个组分, 占提取物总量的71.94%, 其中的主要成分是叶醇(43.90%), 青叶醛(7.42%), 2,4-二叔丁基苯酚(4.80%)等。SFE-CO₂获得的挥发油中分离出55个峰, 鉴定了其中33个组分, 占提取物总量的81.51%, 其中的主要成分是角鲨烯(11.85%), 桉油精(9.95%), (+)- α -松油醇(5.34%)等。结论: 两种提取方法得到的香胶木叶挥发油组分与相对含量差别较大, 该实验结果为进一步了解其挥发性成分及进一步开发应用提供了依据。

中文关键词: [香胶木](#) [超临界二氧化碳萃取](#) [水蒸气蒸馏](#) [气相色谱-质谱](#)

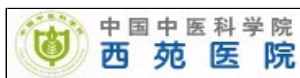
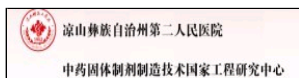
Chemical Constituents in Essential Oil from *Litsea glutinosa* by Steam Distillation and SFE-CO₂ by GC-MS

Abstract: Objective: To compare chemical constituents of the essential oil of *Litsea glutinosa* (Lour.) C.B. Rob. were extracted by steam distillation (SD) and supercritical-CO₂ fluid extraction (SFE-CO₂). Method: The chemical components of the essential oil were separated and identified by GC-MS, Their relative contents were determined by normalization of peak area. Result: In essential oil extracted by SD 33 peak were separated and 19 of them were identified representing 71.94% of the total contents. The volatile constituents were mainly the (Z)-3-Hexen-1-ol (43.90%), (E)-2-Hexenal (7.42%), 2,4-bis(1,1-dimethylethyl)-Phenol (4.80%). In essential oil extracted by SFE-CO₂ 55 peak were separated and 33 of them were identified representing 81.51% of the total contents. The volatile constituents were mainly the squalene (11.85%), eucalyptol (9.95%), (+)- α -Terpineol (5.34%). Conclusion: The constituents of essential oils extracted by SFE-CO₂ were different from that of extraction by SD. The result provided evidence for understanding the constituents of essential oils and exploitation of *Litsea glutinosa* (Lour.) C.B. Rob.

keywords: [Litsea glutinosa](#) [SFE-CO₂](#) [SD](#) [GC-MS](#)

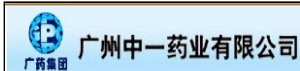
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