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水蒸气蒸馏与超临界CO_2萃取香胶木叶 挥发油化学成分的GC-MS分析

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作者	单位	E-mail
周燕园	桂林医学院,广西桂林 541004	zhou-yanyuan@163.com

中文摘要：目的：考察水蒸气蒸馏法(SD)和超临界萃取法(SFE-CO_2)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-CO_2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-CO_2 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-CO_2 fluid extraction (SFE-CO_2). 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-CO_2 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%), (+)-.alpha.-Terpineol (5.34%). Conclusion: The constituents of essential oils extracted by SFE-CO_2 were different from that of extraction by SD. The result provided evidence for understanding the constituents of essential oils and explitation of Litsea glutinosa (Lour.) C.B.Rob.

keywords: Litsea glutinosa SFE-CO_2 SD GC-MS

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