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GC-MS用于超滤法与萃取法富集青皮挥发油的比较研究

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中文摘要:目的: 采用超滤法与乙酸乙酯萃取法对青皮含油水体进行油水分离,并对其挥发油得率与化学组成进行比较。 方法: 分别采用超滤法与乙酸乙酯萃取法对青皮含油水体进行油水分离并进行GC-MS分析,比较化学组成差别。 结果: 超滤法收集的挥发油化学组成较乙酸乙酯萃取法更接近水蒸气蒸馏法所得挥发油,且收率高于乙酸乙酯萃取法。 结论: 超滤法是一种较好的青皮含油水体油水分离的方法。

中文关键词:青皮 挥发油 超滤法 萃取法 GC-MS

Comparison of essential oil enriched with ultrafiltration method and extraction method respectively from essential oil-in-water emulsion of Citri Reticulatae Pericarpium Viride by GC-MS

Abstract: Objective: To study on the separation from essential oil-in-water emulsion of Citri Reticulatae Pericarpium Viride by ultrafiltration and acetoacetate extraction methods respectively, and the comparison of the oil yields and chemical compositions. Method: Essential oil-in-water emulsion of Citri Reticulatae Pericarpium Viride was separated by ultrafiltration and acetoacetate extraction methods respectively, and the chemical compositions were analyzed and compared by GC-MS. Result: Ultrafiltration method could enrich essential oil more and its chemical compositions were more similar to the essential oil prepared by steam distillation method. Conclusion: Ultrafiltration method is a good medium to separate essential oil from essential oil-in-water emulsion of Citri Reticulatae Pericarpium Viride.

keywords: Citri Reticulatae Pericarpium Viride essential oil ultrafiltration method extraction method GC-MS

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