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不同干燥方法对鸡蛋花挥发油化学成分的影响

Effects of Different Drying Methods on the Components of Essential Oil in *Plumeria Rubravar Actifolia*

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英文关键词: [Plumeria rubra L. var. actifolia Bailey](#) [drying methods](#) [essential oil](#) [GC-MS](#)

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中文摘要:

目的 对比鸡蛋花不同干燥方法对其挥发油成分的影响。方法 采用水蒸汽蒸馏法进行挥发油提取,并用气相色谱质谱联用技术对挥发油进行了分离和鉴定,采用面积归一化法确定各成分的相对百分含量。结果 挥发油提取率:鲜品0.15%、阴干0.05%、晒干0.02%。气相色谱鉴定出58种成分,最后确定28种,主要为橙花叔醇、金合欢醛、苯甲酸苄酯、水杨酸苯甲酯、苯甲酸香叶酯、橙花基芳樟醇异构体、 α -异戊酸松油酯等。结论 鸡蛋花的干燥方法阴干优于晒干,既保存了挥发油的含量也降低了毒性成分。鸡蛋花挥发油易受日照、温度、放置时间的影响,因此加工过程中应严格按照规范操作。

英文摘要:

OBJECTIVE To evaluate the effects of different drying methods on the essential oil from *Plumeria rubra L. var. actifolia Bailey*. METHODS To extract the essential oil by steam distillation, separate and identify by GC-MS. The relative contents in percentage were calculated with area normalization method. RESULTS Essential oil extraction rates were 0.15%, 0.05% and 0.02% for fresh, drying in the shade and drying in the sun samples, respectively. In 58 substances, 28 were identified from *Plumeria rubra L. var. actifolia Bailey*, such as d-nerolidol, farnesol, benzyl benzoate, geranyl benzoate, neryl linalool isomer and α -terpinyl isovalerate. CONCLUSION The *Plumeria rubra L. var. actifolia Bailey* drying in the shade is better than drying in the sun. It is favorable to keep the content of the essential oil and reduce toxicity. The essential oil of *Plumeria rubra L. var. actifolia Bailey* is easily affected by sunshine, temperature and storage time. Standard operation is very important in production.

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