

## ABSTRAK

### ISOLASI DAN IDENTIFIKASI SENYAWA MINYAK ATSIRI DARI DAUN JERUK PURUT (*Citrus hystrix DC*) DAN DAUN JERUK LIMAU (*Citrus amblycarpa*)

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Daun jeruk limau (*Citrus amblycarpa*) dan daun jeruk Purut (*Citrus hystrix DC*) merupakan salah satu bumbu dapur penghasil minyak atsiri. Pada penelitian kali ini daun jeruk limau dan daun jeruk purut didestilasi dengan menggunakan metode Destilasi *Stahl*. Hasil dari isolasi minyak atsiri daun jeruk limau di dapatkan rendemen minyak sebesar 0,12% sedangkan minyak atsiri daun jeruk purut sebesar 0,21%. GC-MS digunakan untuk mengetahui komponen penyusun pada minyak atsiri daun jeruk limau dan daun jeruk purut. Hasil GC-MS minyak atsiri daun jeruk limau didominasi 5 komponen yaitu  $\beta$ -pinena 5,54%, linalool 12,62%, sitronelal 44,02%,  $\beta$ -sitronelol 31,57% dan geraniol 5,83%, sedangkan minyak atsiri daun jeruk purut didominasi 5 komponen, yaitu isopulegol 3,47%, sitronelil asetat 1,55%,  $\beta$ -sitronelol 3,72 %, sitronelal 39,65%, dan geraniol asetat 3,38%.

Kata-kata kunci: Daun Jeruk Limau (*Citrus amblycarpa*), Daun Jeruk Purut (*Citrus hystrix DC*), Destilasi *Stahl*, GC-MS.



## ABSTRACT

### ISOLATION AND IDENTIFICATION OF ESSENTIAL OIL COMPOUNDS FROM LEAVES KAFFIR LIME (*Citrus hystrix* DC) AND LIME LEAVES (*Citrus amblycarpa*)

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*Lime leaves (*Citrus amblycarpa*) and leaves kaffir lime (*Citrus hystrix* DC) are one of the cooking ingredients that produce essential oils. In this research, lime leaves and kaffir lime leaves were distilled using the Stahl Distillation method. GC-MS is used to determine the constituent components of essential oils of lime leaves and kaffir lime leaves. The results of the isolation of essential oil of lime leaves obtained oil yield of 0.12% while the essential oil of kaffir lime leaves was 0.21%. The GC-MS results of lime leaf essential oil were dominated by 5 components, namely  $\beta$ -pinene 5,54%, linalool 12,62%, citronellal 44,02%,  $\beta$ -citronellol 31,57% and geraniol 5,83%, while the essential oil of kaffir lime leaves was dominated by 5 components, namely isopulegol 3,47%, citronelil acetate 1,55%,  $\beta$ -citronellol 3,72%, citronellal 39,65%, and geranyl acetate 3,38%.*

*Key words: Lime Leaves (*Citrus amblycarpa*), Leaves kaffir lime (*Citrus hystrix* DC), Stahl Distillation, GC-MS.*

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