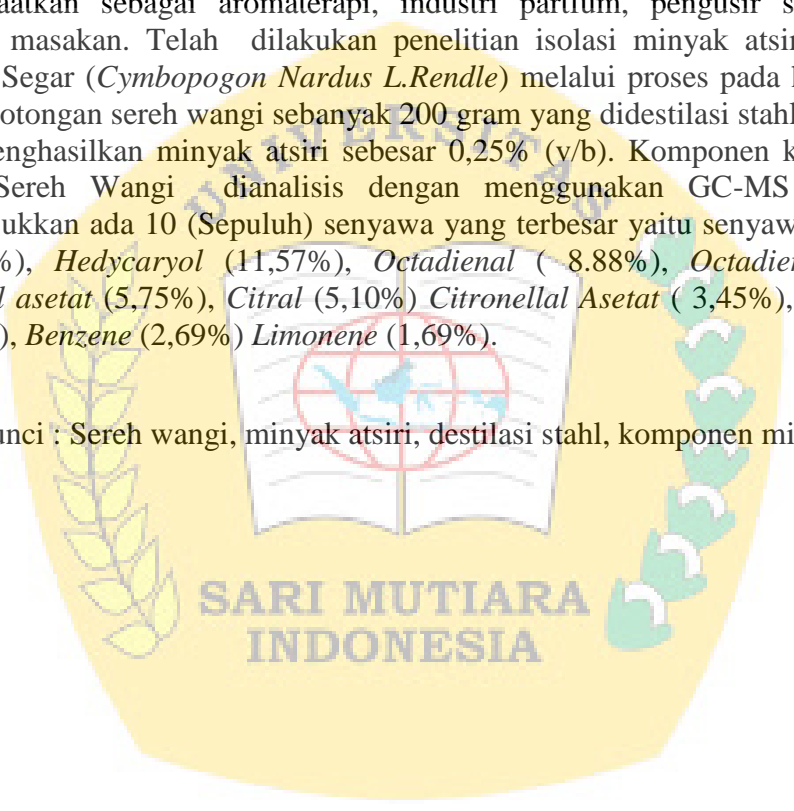


# ISOLASI DAN ANALISIS KOMPONEN MINYAK ATSIRI SEREH WANGI (*Cymbopogon nardus L.Rendle*) MELALUI HIDRODESTILASI MENGGUNAKAN METODE GAS CHROMATOGRAPHY MASS SPECTROMETRY (GC-MS)

## ABSTRAK

Sereh wangi (*Cymbopogon Nardus L.Rendle*) merupakan salah satu tumbuhan atau tanaman penghasil minyak atsiri. Minyak atsiri sereh wangi sering dimanfaatkan sebagai aromaterapi, industri partfum, pengusir serangga dan bumbu masakan. Telah dilakukan penelitian isolasi minyak atsiri dari Sereh Wangi Segar (*Cymbopogon Nardus L.Rendle*) melalui proses pada hidrodestilasi stahl. Potongan sereh wangi sebanyak 200 gram yang didestilasi stahl selama  $\pm$  4-5 jam menghasilkan minyak atsiri sebesar 0,25% (v/b). Komponen kimia minyak atsiri Sereh Wangi dianalisis dengan menggunakan GC-MS dan FT-IR menunjukkan ada 10 (Sepuluh) senyawa yang terbesar yaitu senyawa *Citronellal* (36,94%), *Hedycaryol* (11,57%), *Octadienal* (8,88%), *Octadienal* (7,49%), *Geranil asetat* (5,75%), *Citral* (5,10%) *Citronellal Asetat* (3,45%), *Veridifilorol* (2,85%), *Benzene* (2,69%) *Limonene* (1,69%).

Kata kunci : Sereh wangi, minyak atsiri, destilasi stahl, komponen minyak atsiri



**ISOLATION AND ANALYSIS OF COMPETENT OIL FROM VIRGIN OIL  
(*Cymbopogon nardus L.rendle*) THROUGH HYDRODESTILATION USING  
METHOD GAS CHROMATOGRAPHY MASS SPECTROMETRY  
(GC-MS)**

**ABSTRACT**

*Fragrant lemongrass (Cymbopogon Nardus L.Rendle) is one of the plants or plants producing essential oils. Fragrant lemongrass essential oils are often used as aromatherapy, perfume industry, insect repellents and cooking spices. The isolation of essential oil from Fresh Lemongrass (Cymbopogon Nardus L. Rendle) has been done through a process on stahl hydrodestilation. Fragments of citronella as much as 200 grams were distilled stahl for ± 4-5 hours to produce essential oils of 0.25% (v / b). The chemical components of essential oils of Lemongrass Fragrant were analyzed using GC-MS and FT-IR showed that there were 10 (ten) biggest compounds, namely Citronellal compound (36.94%), Hedycaryol (11.57%), Octadienal (8.88%), Octadienal (7.49%), Geranil acetate (5.75%), Citral (5.10%) Citronellal Acetate (3.45%), Veridifilorol (2.85%), Benzene (2.69%) Limonene (1, 69%).*

*Keywords: Fragrant lemongrass, essential oil, distillation of stahl, essential oil component*

