

ANALISIS KUALITATIF DAN KUANTITATIF MINYAK ATSIRI DAUN CENDANA (*Santalum album L.*)

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Abstrak - *Santalum album L* (cendana) adalah tanaman yang memiliki banyak khasiat yang banyak tumbuh di Indonesia. Sudah dilakukan penelitian pada bagian akar dan batang dari tanaman cendana, namun belum dilakukan penelitian dari bagian daun. Pada penelitian ini dilakukan analisis Kualitatif dan Kuantitatif minyak atsiri daun cendana. Untuk analisis kualitatif meliputi pengamatan organoleptis, penetapan indeks bias, bobot jenis, profil Kromatografi Lapis Tipis (KLT) dan profil kromatografi Gas Spektra Massa. Analisis kuantitatif dilakukan penetapan kadar minyak atsiri dengan metode destilasi stahl. Minyak atsiri daun Cendana mempunyai bentuk cair, berwarna coklat, bau aromatik dan rasa agak pahit. Bobot jenisnya $1,28 \pm 0,021$ dengan indeks bias $1,46 \pm 0,01$ dan kadarnya $0,6 \pm 5,03 \times 10^{-5}$ serta profil KLT memiliki 4 noda. Analisis KGMS didapatkan 6 komponen penyusun minyak atsiri daun cendana. Komponen yang tertinggi adalah Pyrrolidine 1-(ethyl-1-cyclohexen-1-yl).

Kata kunci : Minyak Atsiri, *Santalum album L.*, Daun cendana, kualitatif dan kuantitatif.

Abstract - *Santalum album L* (Cendana) is a plant has many benefits that grow a lot in Indonesia. Already done research on the roots and stems of the cendana plant, but not research on the leaf. In this research, the volatile component from of the leaf of this plant was analyzed in qualitative and quantitative. For qualitative analysis are organoleptic observations, the determination of the refractive index, specific gravity, profile Thin Layer Chromatography (TLC), profile gas chromatography and mass spectra (GC-MS). Quantitative analysis performed assay of essential oil with stahl distillation method.

Santalum album's essential oil has a clear liquid, the color is brown, has a very fragrant aroma and taste is a little bit bitter. The specific gravity of the essential oil is $1,28 \pm 0,021$, the refractive index is $1,46 \pm 0,01$ and the total content is $0,6 \pm 5,03 \times 10^{-5}$ (v/w). profile TLC revealed that there are 4 spot. The result GC-MS showed there were 6 components, and the highest component is Pyrrolidine 1-(ethyl-1-cyclohexen-1-yl).

Keyword : Volatile oil, essential oil, Santalum album L, GCMS, qualitative and quantitative.

