

INTISARI

MADE, D.A.W., 2018 PERBANDINGAN KARAKTERISTIK MINYAK ATSIRI DAUN PUCUK MERAH (*Syzygium Myrtifolium* Walp) MUDA DAN TUA, KARYA TULIS ILMIAH, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.

Tanaman pucuk merah (*Syzygium Myrtifolium* Walp., Family *Myrtaceae*) merupakan tanaman hias yang sedang populer di Indonesia sehingga keberadaannya dengan mudah dijumpai di tepi-tepi jalan dan di halaman rumah. Tanaman pucuk merah satu famili *Myrtaceae* yang mengandung minyak atsiri. Tujuan penelitian ini adalah menganalisis komponen senyawa kimia dalam minyak atsiri dan membandingkan sifat fisiko kimia minyak atsiri daun pucuk merah muda dan tua.

Isolasi minyak atsiri daun pucuk merah muda dan tua dilakukan dengan metode distilasi air dengan pipa clavenger. Analisis karakteristik secara fisikokimia dilakukan diantaranya uji organoleptis meliputi warna, bentuk, rasa atau aroma, uji kelarutan, indeks bias, KLT, dan GC-MS.

Hasil penelitian menunjukkan bahwa karakteristik minyak atsiri dari daun muda memiliki rendemen sebesar 0,33% dan daun tua sebesar 0,15%. Minyak atsiri yang dihasilkan berwarna kuning, tidak larut dalam etanol 96%. Minyak atsiri daun muda baunya lebih khas seperti tanaman asal dan tahan lama dibandingkan daun tua. Indeks bias minyak atsiri daun muda 1,485, sedangkan minyak atsiri daun tua 1,4915. Minyak atsiri daun pucuk merah tidak mengandung eugenol. Komponen senyawa utama minyak atsiri daun pucuk merah dari hasil GC-MS yaitu *trans-caryophyllene* daun tua sebesar 18,04% dan 18,01% pada daun muda.

Kata kunci : Daun pucuk merah, (*Syzygium myrtifolium* Walp.,). GC-MS Kromatografi gas dan Spektroskopi Massa.

ABSTRACT

MADE, D.A.W., 2018 COMPARISON OF CHARACTERISTICS OF YOUNG AND OLD RED LIP LEAVES ESSENTIAL OIL (*Syzygium Myrtifolium Walp*), SCIENTIFIC WRITING, PHARMACY FACULTY, SETIA BUDI UNIVERSITY, SURAKARTA.

Red lip (*Syzygium Myrtifolium Walp.*, *Myrtaceae* family) is an ornamental plant that is popular in Indonesia so that its existence easily found on the edge of the road and in the yard. Red lip which is one *Myrtaceae* family contains essential oils. The purpose of this study was to analyze the components of chemical compounds in essential oils and to compare the physical and chemical properties of essential oils of pink and old shoots.

Isolation of essential oils of pink and old shoots is done by the method of water distillation with clavenger pipes. Physicochemical characteristic analyzes were performed including organoleptic tests including color, shape, taste and aroma, solubility test, refractive index, TLC and GC-MS.

The results showed that the essential oil characteristics of young leaves was 0.33% and old leaves was 0.15%. The essential oil produced was yellow, insoluble in 96% ethanol. The essential oil of young leaves smelled more typical as the plant origin and durable than old leaves. The refractive index of young leaves oil was 1,485, while the old leaves oil was 1.4915. The essential oil of red lip leaves did not contained eugenol. The main compound component of red lip leaves of GC-MS was *trans*-caryophyllene with 18,04% old and 18,01% young leaves.

Keywords: Red lip leaves, (*Syzygium Myrtifolium Walp.*). GC-MS Gas Chromatography and Mass Spectroscopy.