

**PROGRAM STUDI SARJANA FARMASI UNIVERSITAS IMELDA
MEDAN**

Nama : Miftahul Husni
Nim : 2048201015
Judul Skripsi : Pembuatan dan Evaluasi Karakteristik Fisik *Hand and Body Lotion* dari Kombinasi Ekstrak Bunga Lavender (*Lavandula angustifolia* Mill) dan Ekstrak Batang Sereh (*Cymbopogon citratus* (DC) Stapf)

ABSTRAK

Pembuatan *hand and body lotion* dari kombinasi ekstrak bunga lavender (*Lavandula angustifolia* Mill) dan batang sereh (*Cymbopogon citratus* (DC) Stapf) telah dilakukan. Metode penelitian bersifat eksperimen di laboratorium dengan pendekatan analisa kuantitatif. Sampel dari penelitian ini dari ekstrak bunga lavender dan batang sereh. Adapun tahapan penelitian mencakup sortasi sampel, ekstraksi, evaporasi ekstrak, pembuatan *hand and body lotion* dan evaluasi karakteristik *hand and body lotion*. Tahap ekstraksi menggunakan metode maserasi selama 3 hari dengan pelarut etanol 96%, ekstrak yang diperoleh dipekatan dengan menggunakan *rotary evaporator*. *Hand and body lotion* dari kombinasi ekstrak bunga lavender dan batang sereh dibuat dalam 3 konsentrasi yaitu masing-masing dengan konsentrasinya 1%, 3% dan 5%. Pengujian evaluasi karakteristik fisik sediaan meliputi uji organoleptis, uji homogenitas, uji pH, uji daya sebar, uji hedonik, uji iritasi terhadap sukarelawan dan uji viskositas. Hasil pengujian organoleptis menunjukkan sediaan berwarna coklat kehijauan dan tekstur halus. Hasil penelitian uji homogenitas menunjukkan tidak ada butiran kasar. Hasil pengujian pH menunjukkan pH 6,76 sampai 7,98. Hasil uji daya sebar menunjukkan penyebaran 6,5 cm sampai 7,0 cm. Hasil uji hedonik menunjukkan sediaan disukai oleh panelis baik warna, tekstur dan aroma. Hasil uji iritasi menunjukkan bahwa sediaan tidak menyebabkan reaksi iritasi yang ditandai dengan tidak adanya kemerahan, gatal-gatal, dan bengkak pada kulit. Hasil uji viskositas menunjukkan hasil kekentalan sediaan *hand and body lotion* berkisar 2339 cp sampai 6335 cp artinya berada pada kategori viskositas semi-kental dan kental. Berdasarkan hasil dapat disimpulkan bahwa kombinasi ekstrak bunga lavender dan ekstrak batang sereh dapat diformulasikan dalam sediaan *hand and body lotion*. Disarankan peneliti selanjutnya membuat sediaan kosmetik lain seperti *lotion* wajah dari ekstrak bunga lavender dan ekstrak batang sereh.

Kata kunci : *Lavandula angustifolia* Mill, *Cymbopogon citratus* (DC) Stapf, *Hand And Body Lotion*, Karakteristik Fisik, Formulasi

**BACHELOR OF PHARMACY PROGRAM UNIVERSITY OF IMELDA
MEDAN**

Name : Miftahul Husni
Nim : 2048201015
Title : Preparation and Evaluation of Physical Characteristics of Hand and Body Lotion from a Combination of Lavender Flower Extract (*Lavandula angustifolia* Mill) and Lemongrass Stem Extract (*Cymbopogon citratus* (DC) Stapf)

ABSTRACT

Hand and body lotion from a combination of lavender flower extract (*Lavandula angustifolia* Mill) and lemongrass stems (*Cymbopogon citratus* (DC) Stapf) has been carried out. The research method is experimental in the laboratory with a quantitative analysis approach. The samples from this research were extracts from lavender flowers and lemongrass stems. The research stages include sample sorting, extraction, extract evaporation, making hand and body lotion and evaluating the characteristics of hand and body lotion. The extraction stage used the maceration method for 3 days with 96% ethanol solvent, the extract obtained was concentrated using a rotary evaporator. Hand and body lotion from a combination of lavender flower extract and lemongrass stems is made in 3 concentrations, namely 1%, 3% and 5% respectively. Tests evaluating the physical characteristics of the preparation include organoleptic tests, homogeneity tests, pH tests, spreadability tests, hedonic tests, irritation tests on volunteers and viscosity tests. The organoleptic test results showed that the preparation had a greenish brown color and a smooth texture. The results of the homogeneity test research showed that there were no coarse grains. The pH test results showed a pH of 6.76 to 7.98. The spreadability test results showed a spread of 6.5 cm to 7.0 cm. The results of the hedonic test showed that the panelists liked the preparation for color, texture and aroma. The irritation test results show that the preparation does not cause an irritation reaction which is characterized by the absence of redness, itching and swelling on the skin. The viscosity test results show that the viscosity of the hand and body lotion ranges from 2339 cp to 6335 cp, meaning it is in the semi-viscous and thick viscosity categories. Based on the results, it can be concluded that a combination of lavender flower extract and lemongrass stem extract can be formulated in hand and body lotion preparations. It is recommended that researchers further make other cosmetic preparations such as facial lotion from lavender flower extract and lemongrass stem extract.

Keywords : *Lavandula angustifolia* Mill, *Cymbopogon citratus* (DC) Stapf, Hand And Body Lotion, Physical Characteristic, Formulation