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Judul : Formulasi dan Evaluasi Fisik Sediaan Masker Krim Kombinasi Ekstrak Daun dan Bunga Telang (*Clitoria ternatea* L.) Sebagai Antioksidan

ABSTRAK

Daun dan bunga telang diketahui memiliki kandungan antioksidan tinggi yang berperan dalam mengatasi permasalahan kulit wajah seperti kulit kusam, berjerawat, berminyak, serta penuaan dini akibat paparan radikal bebas. Ekstrak daun dan bunga telang mengandung metabolit sekunder berupa flavonoid yang bermanfaat sebagai antioksidan alami bagi kesehatan kulit. Penelitian ini bertujuan untuk menentukan mutu fisik sediaan masker krim dari ekstrak daun dan bunga telang melalui uji mutu fisik dan uji hedonik. Tahapan penelitian meliputi pengambilan sampel, identifikasi tanaman, pembuatan simplisia, ekstraksi, skrining fitokimia, formulasi dan evaluasi mutu fisik sediaan. Hasil evaluasi mutu fisik masker krim pada uji organoleptis menunjukkan bahwa F1 berwarna *lihgt blue*, F2 dan F3 berwarna *steel blue*, beraroma khas ekstrak dan bertekstur lembut. Terhadap uji homogenitas seluruh formula F1,F2 dan F3 sudah homogen. Terhadap uji pH menunjukkan F1 memiliki pH 5,28, F2 memiliki pH 5,80, F3 memiliki pH 5,99. Terhadap uji daya sebar menunjukkan F1 memiliki rerata 5,0 cm, F2 5,4 cm, F3 6,0 cm. Hasil persentase uji hedonik menunjukkan bahwa F3 dengan kategori sangat suka oleh panelis dari tekstur (90%), aroma (90%), dan warna (50%). Hasil uji aktivitas antioksidan menunjukkan bahwa dari ketiga formulasi F1, F2 dan F3 aktifitas antioksidan yang paling kuat adalah formulasi F1 dengan IC_{50} 16,726371718 ppm.

Kata kunci : Masker Krim, Tanaman Telang, Mutu Fisik.

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Title : *Formulation and Physical Evaluation of a Cream Mask Preparation Combining Butterfly Pea Leaf and Flower Extracts (Clitoria ternatea L.) as an Antioxidant*

ABSTRACT

Butterfly pea leaves and flowers are known to have high antioxidant content that plays a role in overcoming facial skin problems such as dull skin, acne, oily skin, and premature aging due to exposure to free radicals. Butterfly pea leaf and flower extracts contain secondary metabolites in the form of flavonoids which are useful as natural antioxidants for skin health. This study aims to determine the physical quality of cream mask preparations from butterfly pea leaf and flower extracts through physical quality tests and hedonic tests. The research stages include sampling, plant identification, simplicia preparation, extraction, phytochemical screening, formulation and evaluation of the physical quality of the preparation. The results of the evaluation of the physical quality of the cream mask in the organoleptic test showed that F1 was light blue, F2 and F3 were steel blue, had a distinctive aroma of the extract and had a soft texture. Regarding the homogeneity test, all formulas F1, F2 and F3 were homogeneous. The pH test showed F1 had a pH of 5.28, F2 had a pH of 5.80, F3 had a pH of 5.99. The spreadability test showed F1 had an average of 5.0 cm, F2 5.4 cm, F3 6.0 cm. The results of the hedonic test percentage showed that F3 was in the very liked category by the panelists for texture (90%), aroma (90%), and color (50%). The results of the antioxidant activity test showed that of the three formulations F1, F2, and F3, the strongest antioxidant activity was formulation F1 with an IC50 of 16.726371718 ppm.

Keywords**: **Cream Mask, Clitoria ternatea, physical quality.