

**PROGRAM STUDI MAGISTER SAINS BIOMEDIS
UNIVERSITAS PRIMA INDONESIA**

Nama : Nona Yohanna
NIM : 243301811005
Judul : Formulasi dan Uji Bioaktivitas Antioksidan Masker Krim Dari Ekstrak Etanol Daun Dengan Penambahan Ekstrak Etanol Bunga Tumbuhan Miana (*Coleus scutellarioides* (L.) Benth)

ABSTRAK

Daun dan bunga miana 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 miana mengandung metabolit sekunder berupa flavonoid yang bermanfaat sebagai antioksidan alami bagi kesehatan kulit. Penelitian ini bertujuan untuk menentukan mutu fisik, antioksidan dan kestabilan sediaan masker krim dari ekstrak daun dan bunga miana. Tahapan penelitian meliputi pengambilan sampel, identifikasi tanaman, pembuatan simplisia, ekstraksi, skrining fitokimia, formulasi, evaluasi mutu fisik sediaan, uji antioksidan dan uji iritasi. Uji organoleptis menunjukkan bahwa warna sediaan F0 putih, F1 hijau sage, F2 hijau olive, F3 hijau army dan memiliki aroma khas ekstrak, selanjutnya uji homogenitas menunjukkan bahwa sediaan masker krim wajah F0,F1,F2,F3 dinyatakan homogen karena sediaan merata secara ukuran dan tidak terdapat partikel kasar, selanjutnya uji pH menunjukkan bahwa F0 memiliki pH 6,98; F1 memiliki pH 5,89; F2 memiliki pH 6,07 dan F3 memiliki pH 6,20 dinyatakan memenuhi syarat pH masker wajah dan kulit, selanjutnya uji daya sebar menunjukkan bahwa F0 memiliki daya sebar 6,50 cm, F1 5,00 cm, F2 5,40 cm, F3 6,00 cm dinyatakan memenuhi syarat daya sebar yang baik, selanjutnya uji hedonik menunjukkan bahwa sediaan masker krim wajah F3 lebih disukai oleh penalis baik dari tekstur, aroma dan warna. Hasil sediaan krim stabil secara fisik, tidak menunjukkan reaksi iritasi dan memiliki aktivitas antioksidan sangat tinggi yang sangat berpotensi sebagai antiaging.

Kata kunci : masker krim, miana, evaluasi_fisik, bioaktivitas, antioksidan.

PRIMA INDONESIA UNIVERSITY

Nama : Nona Yohanna
NIM : 243301811005
Judul : *Formulation and Antioxidant Bioactivity Test of a Cream Mask Made from Ethanol Extract of Miana Leaves with the Addition of Ethanol Extract of Miana Flowers (Coleus scutellarioides (L.) Benth)*

ABSTRACT

Miana leaves and flowers are known to have high antioxidant content that plays a role in addressing facial skin problems such as dullness, acne, oily skin, and premature aging caused by free radical exposure. Miana leaf and flower extracts contain secondary metabolites in the form of flavonoids, which are beneficial as natural antioxidants for skin health. This study aims to determine the physical quality, antioxidant properties, and stability of a cream mask preparation made from miana leaf and flower extracts. The research stages include sampling, plant identification, preparation of herbal preparations, extraction, phytochemical screening, formulation, evaluation of the physical quality of the preparation, antioxidant testing, and irritation testing. The organoleptic test showed that the color of the F0 preparation was white, F1 sage green, F2 olive green, F3 army green and had a distinctive aroma of extract, then the homogeneity test showed that the facial cream mask preparation F0, F1, F2, F3 was declared homogeneous because the preparation was even in size and there were no coarse particles, then the pH test showed that F0 had a pH of 6.98; F1 had a pH of 5.89; F2 had a pH of 6.07 and F3 had a pH of 6.20 which were stated to meet the pH requirements of facial masks and skin, then the spreadability test showed that F0 had a spreadability of 6.50 cm, F1 5.00 cm, F2 5.40 cm, F3 6.00 cm which were stated to meet the requirements of good spreadability, then the hedonic test showed that the F3 facial cream mask preparation was preferred by the analyst both in terms of texture, aroma and color. The results of the cream preparation were physically stable, did not show irritation reactions and had very high antioxidant activity which had great potential as an anti-aging agent.

Keywords: *cream mask, miana, physical evaluation, bioactivity, antioxidant.*