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Judul : Formulasi Dan Evaluasi Fisik Masker Krim Kombinasi Ekstrak Daun Dan Buah Rimbang (*Solanum torvum*)

ABSTRAK

Rimbang (Solanum torvum) merupakan tumbuhan lokal Indonesia yang mengandung berbagai jenis vitamin seperti A, B1, C, serat, mineral, Flavonoid termasuk senyawa fenolik dengan aktivitas antioksidan tinggi yang mampu menangkap radikal bebas dan mencegah stres oksidatif. Penelitian ini bertujuan untuk memformulasikan serta mengevaluasi mutu fisik sediaan masker krim dari kombinasi ekstrak daun dan buah rimbang. Ekstraksi dilakukan dengan metode maserasi menggunakan etanol 70%. Masker krim diformulasikan dengan variasi konsentrasi kombinasi ekstrak sebesar 3% (F1), 6% 9 (F2), dan 9% (F3). Evaluasi mutu fisik dilakukan melalui uji organoleptik, homogenitas, pH, daya sebar, serta uji hedonik. Hasil penelitian menunjukkan bahwa sediaan masker krim memiliki karakteristik semisolid, homogen, dengan warna hijau dengan aroma khas ekstrak. Nilai pH masing-masing formula adalah 5,12 (F0), 5,21 (F1), 5,38 (F2), dan 5,90 (F3), berada dalam rentang pH kulit normal. Daya sebar meningkat seiring dengan peningkatan konsentrasi ekstrak, yaitu 5,12 cm (F0), 5,33 cm (F1), 5,67 cm (F2), dan 5,83 cm (F3). Berdasarkan hasil evaluasi, kombinasi ekstrak daun dan buah rimbang dapat diformulasikan menjadi sediaan masker krim yang stabil secara fisik dan berpotensi digunakan sebagai produk perawatan kulit berbasis antioksidan alami untuk melindungi kulit dari efek radikal bebas.

Kata kunci: *Solanum torvum*, masker krim, evaluasi fisik

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ABSTRACT

Turkey berry (*Solanum torvum*) is an Indonesian local plant that contains various vitamins such as A, B1, C, fiber, minerals, flavonoids, including phenolic compounds with high antioxidant activity that can capture free radicals and prevent oxidative stress. This study aims to formulate and evaluate the physical quality of cream mask preparations from a combination of leaf and fruit extracts of turkey berry. Extraction was carried out using the maceration method with 70% ethanol. The cream mask was formulated with variations in the concentration of extract combinations of 3% (F1), 6% (F2), and 9% (F3). Physical quality evaluation was conducted through organoleptic tests, homogeneity, pH, spreadability, and hedonic tests. The results showed that the cream mask preparations had semisolid characteristics, were homogeneous, with a green color and a distinctive aroma of the extract. The pH values of each formula were 5.12 (F0), 5.21 (F1), 5.38 (F2), and 5.90 (F3), which are within the normal skin pH range. The spreadability increased with the increase in extract concentration, which were 5.12 cm (F0), 5.33 cm (F1), 5.67 cm (F2), and 5.83 cm (F3). Based on the evaluation results, the combination of leaf and fruit extracts of turkey berry can be formulated into a cream mask preparation that is physically stable and has the potential to be used as a natural antioxidant-based skin care product to protect the skin from the effects of free radicals.

Keywords: *Solanum torvum*, cream mask, physical evaluation