FORMULASI SEDIAAN MASKER GEL PEEL-OFF EKSTRAK ETANOL KULIT SALAK (*Salacca zalacca* (Gaernt.) Voss)

ABSTRAK

Salak (Salacca zalacca (Gaernt.) Voss) merupakan buah tropis yang banyak dikonsumsi di Indonesia, dan kulitnya sering dianggap sebagai limbah. Kulit salak mengandung senyawa bioaktif seperti flavonoid, tanin, dan vitamin C yang memiliki sifat antioksidan dan pelembab. Seiring meningkatnya permintaan produk kosmetik berbahan alami, masker gel peel-off menjadi pilihan populer karena praktis digunakan, mampu melembabkan kulit, serta membersihkan wajah secara optimal. Penelitian ini bertujuan untuk memformulasikan masker gel peel-off berbahan ekstrak etanol kulit salak serta mengevaluasi sifat farmasetika dan kosmetiknya. Penelitian dilakukan dengan mengekstraksi kulit salak menggunakan metode maserasi dengan etanol 70%, kemudian memformulasikan masker gel peel-off dengan variasi konsentrasi ekstrak 0%, 1%, 2%, dan 3%. Evaluasi sediaan meliputi uji organoleptis, homogenitas, pH, waktu kering, daya sebar, viskositas, stabilitas menggunakan metode cycling test, serta uji iritasi. Hasil penelitian menunjukkan bahwa ekstrak kulit salak dapat diformulasikan ke dalam masker gel peel-off dengan karakteristik yang baik. Sediaan memiliki konsistensi semi-solid dengan warna dari bening hingga coklat pekat, pH antara 4,63–5,63, waktu kering 15–25 menit, daya sebar 5,33–5,53 cm, serta viskositas 7.435–10.909 mPas. Uji stabilitas menunjukkan tidak ada perubahan signifikan setelah cycling test, dan uji iritasi membuktikan bahwa sediaan aman digunakan. Formula terbaik diperoleh pada konsentrasi ekstrak 2%, yang memberikan keseimbangan optimal antara stabilitas, daya sebar, waktu kering, dan viskositas. Hasil penelitian ini menunjukkan bahwa ekstrak kulit salak berpotensi dikembangkan sebagai produk kosmetik berbahan alami dengan efek pelembab yang efektif.

Kata kunci: masker gel *peel-off*, ekstrak kulit salak, kosmetik.

FORMULATION OF GEL MASK PREPARATION PEEL-OFF ETHANOL EXTRACT OF SALAK SKIN (*Salacca zalacca* (Gaernt.) Voss)

ABSTRACT

Salak (Salacca zalacca (Gaernt.) Voss) is a tropical fruit widely consumed in Indonesia, with its peel often discarded as waste. Salak peel contains bioactive compounds such as flavonoids, tannins, and vitamin C, which have antioxidant and moisturizing properties. As the demand for natural-based cosmetic products increases, peel-off gel masks have become a popular choice due to their practicality, moisturizing effects, and ability to cleanse the skin. This study aims to formulate a peel-off gel mask using ethanol extract of salak peel and evaluate its pharmaceutical and cosmetic properties.The research involved extracting salak peel using the maceration method with 70% ethanol, followed by formulating the peel-off gel mask with extract concentrations of 0%, 1%, 2%, and 3%. The formulations were evaluated for organoleptic properties, homogeneity, pH, drying time, spreadability, viscosity, stability using the cycling test method, and irritation potential. The results showed that the salak peel extract could be successfully incorporated into a peel-off gel mask with desirable characteristics. The formulations had a semi-solid consistency with colors ranging from clear to dark brown, a pH between 4.63 and 5.63, a drying time of 15–25 minutes, spreadability between 5.33–5.53 cm, and viscosity between 7,435–10,909 mPas. Stability tests indicated no significant changes after the cycling test, and irritation tests confirmed the formulations were safe for use. The best formulation was achieved at a 2% extract concentration, balancing stability, spreadability, drying time, and viscosity. This study suggests that salak peel extract can be developed into a natural-based cosmetic product with effective moisturizing properties.

Keywords: peel-off gel mask, salak peel extract, cosmetics.