

ABSTRAK

Anifatul Mu'awanah. Formulasi Masker Gel *Peel Off* Ekstrak Daun Tanaman Porang (*Amorphophallus muelleri* Blume) Yang Stabil Secara Farmaseutik (Dibimbing oleh Hamsinah dan Vina Purnamasari M).

Daun porang (*Amorphophallus muelleri* Blume) memiliki aktivitas antioksidan kuat dengan nilai IC50 sebesar 97,054 µg/mL yang dapat dimanfaatkan dalam pengembangan kosmetik. Tujuan dari penelitian ini adalah untuk mendapatkan suatu formulasi masker gel *peel-off* ekstrak daun porang (*Amorphophallus muelleri* Blume) yang stabil secara farmaseutik. Desain penelitian yang digunakan adalah penelitian eksperimental laboratorium. Masker *peel-off* ekstrak daun porang dibuat dalam 4 formula dengan variasi konsentrasi PVA yaitu 7,5%, 10%, 12,5% dan 15%. Masker *peel-off* yang diperoleh diuji kestabilannya meliputi pengujian organoleptik, homogenitas, uji sineresis, uji daya lekat, uji daya sebar, uji waktu kering, viskositas dan sifat aliran. Hasil penelitian menunjukkan bahwa ekstrak daun porang dapat dibuat dalam formula masker gel *peel-off*. formula masker gel *peel off* ekstrak daun tanaman porang (*Amorphophallus muelleri* Blume) yang memenuhi pengujian kestabilan farmaseutik yaitu formula 3 dengan konsentrasi polivinil alkohol 12,5 % dan formula 4 dengan konsentrasi polivinil alkohol 15%. Formula masker gel *peel off* ekstrak daun tanaman porang yang memenuhi pengujian kestabilan farmaseutik

Kata kunci: Porang (*Amorphophallus muelleri* Blume); Masker *Peel-off*; Polivinil alkohol

ABSTRACT

Anifatul Mu'awanah. *Formulation of Peel Off Gel Mask from Porang Leaf Extract (*Amorphophallus muelleri* Blume) which is Pharmacologically Stable* (Supervised by Hamsinah and Vina Purnamasari M).

The antioxidant activity contained in porang leaves (*Amorphophallus muelleri* Blume) can be utilized in the development of cosmetic products due to its high IC₅₀ (Intensity Coefficient of Action) value, which equates to 97.5 µg/L. The study aimed to identify a pharmaceutically stable gel mask formulation for the use of porang leaf extract. The laboratory experimental research design was employed to obtain the peel-off mask formulation. The mask was manufactured in four different formulas with PVA concentrations ranging from 7.5%, 10%, 12.5% to 15%. The peels-off masks were tested for their stability through organoleptic tests, homogeneity tests, syneresis test, adhesion test, spreadability test, dry time test, viscosity and flow properties. The research results revealed that porang leaf extract was potentially formulated into a peel-off gel mask formula. The peel off gel mask formula which met the pharmaceutical stability test was formula 3 with a polyvinyl alcohol concentration of 12.5% and formula 4 with a polyvinyl alcohol concentration of 15%. To conclude, the peel off gel mask formula containing porang leaf extract passed the pharmaceutical stability testing.

Keywords: Porang (*Amorphophallus muelleri* Blume); Peel-off Mask; Polyvinyl alcohol

