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Peel Off Mask Formulation of Crocodile Oil (*Oleum crocodylus porosus*)

A. Mumtihanah Mursyid^{1,*}, Faradiba², Ahmad Najib²

¹ *Pharmaceutical Division Faculty of Pharmacy Universitas Muslim Indonesia, Makassar-Indonesia*

² *Pharmacognosy and Phytochemistry Division Faculty of Pharmacy Universitas Muslim Indonesia, Makassar Indonesia*

*Correspondent author: mumtihanah.mursyid@umi.ac.id

ABSTRACT

Estuary crocodile oil provides antimicrobial activity against *Streptococcus epidermidis* bacteria which can cause acne. This research aims to produce a pharmaceutically stable peel-off mask preparation. Mask preparations are made with variations of 10% and 12% PVA base; CMC 1% and 2%. Stability tests were carried out using the forced condition technique at temperatures of 5 °C and 35 °C for 12 hours each for 10 cycles. Evaluation of pharmaceutical properties includes organoleptic examination, homogeneity, drying time, spreadability, pH, viscosity, and flow type. The evaluation results after forced conditions in the organoleptic test on all formulas were white with a thick consistency and a distinctive odor. In the homogeneity test, all formulas had good homogeneity. The results of the 10% PVA spreadability test = 6.7; PVA 12% = 6.0; CMC 1% = 7.8 and CMC 2% = 5.7. The results of measuring the pH of PVA 10% = 8.0; PVA 12% = 8.0; CMC 1% = 7.9 and CMC 2% = 8.0. Viscosity value (Poise) PVA 10% = 16.07; PVA 12% = 26.93; CMC 1% = 58.1 and CMC 2% = 66.93. Overall, the tests met the requirements of pharmaceuticals and after the conditions were forced, there were no significant changes. It can be concluded that crocodile oil can be formulated into a *peel-off mask* that meets pharmaceutical requirements.

Keywords: Crocodile oil, Mask, Gel, Peel off