ABSTRACT

FORMULATION LOTION OF EXTRACT GREEN BETEL LEAF (Piper betle L) AND STARFRUIT WULUH (Averrhoa bilimbi L)

Ulfi Wulandari

Green betel leaves and fruit fruit have antioxidant content that can be used as cosmetic preparations in the form of lotions. Lotions contain various benefits, one of which can moisturize the skin. The study made three variations of the formula: 7%, 8%, and 9% stearic acid. Based on the results of studies with variations in concentration Stearic acid has no effect on organoleptic assay, homogeneity test and pH test. In the pH test at all three concentrations showed the higher the concentration of stearic acid, the higher the pH rose and the more alkaline F1 (5.92; 5.94; 5.90). F2 (5.98; 6.00; 5.94). F3 (5.91; 6.03; 6.08) but still meets the skin's pH range making it safe to use topically. Based on statistical analysis using the ANOVA test (One way) on the third pH test the formula showed a result of 0.61 > 0.05. The scatter test showed the higher the concentration the smaller the value of the spread, i.e. the average load of 50 grams F1; F2; F3 (4.5; 4.1; 3.8) cm, 100 gr am load F1; F2; F3 (5; 4,3; 4.2) cm, 150 grams F1; F2; F3 (5.5; 5.1; 4.7) cm, load 200 gram F1; F1; F1; 2; F3 (6.2; 5.7; 5.2) cm. but the entire concentration is still within the range of good scatter power test specifications In the third scattering test the formula showed a result of 0.003 < 0.05, there was a significant difference in the dispersal power of the concentrations of stearic acid lotion extract betel leaf extract (Piper betle L) and starfruit (Averrhoa bilimbi L).. For lotion preparation results, it is best to use formula 2 using 8% stearic acid concentration, because formula 2 has a better consistency of viscosity compared to other formulas. So it is very easy and convenient in its use.

Keywords : *Antioxidant, Lotion, stearic acid, Green Betel Leaf Extract, Starfruit wuluh Extract*