

Formulation and Anti-Aging Effect of Cream Containing Breadfruit (*Artocarpus altilis* (Parkinson) Fosberg) Leaf Extract

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Abstract : Free radicals are compounds that have unpaired electrons, so these compounds tend to be reactive to attack other molecules. Free radicals attack on the tissue can damage fatty acids and reduce elasticity, so the skin become dry and wrinkled. Flavonoids are found in the leaves of breadfruit can neutralize and reduce free radicals and inhibit oxidation in cells, by reducing the occurrence of cell damage and can combat premature aging. Breadfruit leaf extract formulated into cream with various concentration of 0.5; 1.5; 2.5 and 3.5%. For comparison was used O cream. Physical properties (homogeneity, emulsion type, pH, stability), irritation and anti-aging effect of cream are tested. The results of the study showed that all the cream preparations were homogeneous, it had a pH 6.72 to 7.10, stable during storage of 12 weeks, and did not irritate the skin. The results of measurements of the effect of anti-aging showed that breadfruit leaf extract cream 3.5% better increase water levels and reduce stain compared to other formula and O cream, while the parameters of smoothness, pore, and wrinkles showed similar results with O cream.

Keywords : Formulation, breadfruit leaf extract, skin analyzer, cream, anti-aging.

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