ABSTRACT

Comparison Study of Anti aging activity of Temu Giring (*Curcuma heyneana* Val.) in extract, liposome extract, and ethosome extract on rat skin.

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Temu giring has been used as the main ingredient in traditional cosmetic for women since long time ago. The purpose of this research is to compare anti aging activity of temu giring in extract, liposome extract, and ethosome extract on rat skin. The sample was applied on skin of male rat which is already exposed by UV light then observed after 21 days of treatment by counting the amount of fibroblast and the thickness of stratum corneum on skin histological preparation using Hematoxylin-Eosin colouring. The amount of fibroblast observed in ethosome, liposome, and extract were 169.17, 123.50, and 94.50 respectively. The thickness of stratum corneum observed in ethosome, liposome, and extract were 13.92µm, 21.77µm, and 30.22µm respectively. The result was analyzed by one way anova and showed significant difference with ($p<0.05$). From the anti aging activity test, it was concluded that ethosome gave better anti aging activity on rat skin.

Keywords : Temu Giring rhizome, *Curcuma Heyneana* Val., liposome, ethosome, and anti aging