

## ABSTRACT

**MEISYA SUTRIA WALLY, 2023, FORMULATION OF LOTION PREPARATIONS OF WRAP LEAVES EXTRACT (*Smilax rotundifolia*, L) USING AN IRRITATION TEST ON NEW ZEALAND RABBITS (*Oryctolagus cuniculus*), SKRIPSI PROPOSAL, FACULTY OF PHARMACY, SETIA BUDI UNIVERSITY, SURAKARTA, Supervised by Dr. apt. Gunawan Pamudji Widodo, M.Si. and apt. Taufik Turahman, M.Farm.**

Wrap leaves (*Smilax rotundifolia*, L) is a plant that contains compounds such as alkaloids, saponins, flavonoids, tannins and coumarins which are efficacious as anti-irritants and have pharmacological activity as anti-cancer, medicine for diabetes mellitus, medicine for skin diseases, antibacterial, anti-fungal and antioxidant. The irritation test is a requirement for a topical cosmetic product so that it is hoped that it will not cause irritation when used on consumers. The aim of this research was to measure the irritating effect on the skin of rabbits' backs resulting from the formulation of lotion preparations from packet leaf extract and to assess the safety of lotion preparations that are good for use in accordance with the requirements for lotion preparations according.

In the research that has been carried out, it is known that packet leaf extract (*Smilax rotundifolia*, L) can be formulated in lotion dosage form using 3 variations of the formula, namely 15%, 20%, and 25%. The 15% and 20% formula variations were proven not to cause skin irritation, while the 25% variation was proven to cause an irritating effect with a mild irritation index (*slight*) after treatment for 72 hours.

In testing the physical quality of lotion preparations, it is known that the pack leaf extract has the ability to be formulated into lotion preparations with 3 formula variations, where variations of 25% can cause mild irritation as well as in organoleptic tests, homogeneity tests, viscosity tests, pH tests, spreadability tests, and The stability test was carried out by processing the data using the SPSS (*Statistical Package Social Sciences*) program which had a good value because the data obtained was not less than  $<0.05$  and not more than  $> 1$ , which means the data was stable because it was not significantly different.

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**Keywords : Leaf wrap, Erythema and Udema, Irritation, Lotion**

