

**OPTIMIZATION OF THE FORMULA AND EVALUATION OF
TRANSPARENT SOAP PREPARATIONS FROM THE
SAFFRON PISTIL (*Crocus sativus* L)**

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ABSTRACT

The skin is the body's organ located at the outermost and serves as a barrier layer to protect the body against environmental influences. This triggers the need for cosmetics such as soap. Transparent solid soap is a soap that takes the form of a bar with a transparent appearance, resulting in softer foam on the skin. Saffron is used as a traditional medicine, and treatment, since antiquity. Saffron content is like saponins that can be used in making transparent soap. The objective of this research was to formulate a transparent soap from saffron juice as a protective property of the skin. A transparent soap formulation was to use saffron juice with variations in the concentration of saffron juice (10 g), (8 g), (6 g). This research included the manufacture of saffron juice, transparent soap making as well as transparent soap test parameters including organoleptic test, pH test, foam stability test, water content test and favorability test by respondents and then the results were presented descriptively. Based on the results of research saffron essence could be formulated into transparent solid soap preparations with variations in the concentration of saffron essence (10 g), (8 g), (6 g) with an interesting shape and fairly good hardness and also had a pH of about 9-11. As well as meeting the requirements for water content in accordance with SNI, namely for F0 9.12 ± 0.56 , F1 8.6 ± 0.42 , F2 8.6 ± 0.43 , F3 8.6 ± 0.93 . For the results of testing high, the foam obtained foam results that were quite stable. For the results of the irritation test, it can be concluded that soap preparations containing saffron juice are safe to use because they do not show any side effects after use. The results of the favorability test show that formula 3 was the best formula that was most preferred because it contains the most stable foam among other formulas.

Keywords: cosmetics, skin, transparent soap, saffron