

The Application of Red Pigments from *Streptomyces* K-4B and Dayak Onions (*Eleutherine palmifolia* (L.) Merr.) In Colouring Glycerine Soap

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Title	The Application of Red Pigments from <i>Streptomyces</i> K-4B and Dayak Onions (<i>Eleutherine palmifolia</i> (L.) Merr.) In Colouring Glycerine Soap
First Author	
Last Author	
Authors	Herlina; Asnani, A; Diastuti, H;
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Abstract	Glycerin soap has been colored with red pigment from <i>Streptomyces</i> K-4 B and Dayak onion (<i>Eleutherine palmifolia</i> (L.) Merr). Both red pigments from <i>Streptomyces</i> K-4B and Dayak onion were extracted with ethanol by maceration method, followed with soxhlet extraction. The concentration of red pigment added was varied (0, 200, 300, 400 mu L) to evaluate the best product. The resulted glycerine soaps were characterized and analyzed based on SNI 06-3532-1994. The research results indicated that the glycerine soap has water content ranged from 0.36% to 12.56%; the amount of fatty acid ranged from 14% to 36.75%; the amount of free fatty acids ranged from 0% to 0.37%; the non-saponifiable fat ranged from 0.001 to 0.019%; the pH ranged from 10.33 to 11.06; the foam stability ranged from 0.61% to 89.09%. The results of analysis of variance showed that the effect between treatments significantly different at 95% confidence level (alpha= 0.05) on the characteristics of glycerine soap. The results of an organoleptic test with parameters observed were color, aroma, texture, foam, rough impression upon usage and rough impression after usage, gave "like to very like soap" with a maximum score of 4.67 (1 to 5 scale). Based on the color assessment, the organoleptic panelists preferred the glycerine soap of SK-4B3 (red pigment from <i>Streptomyces</i> K-4B, 200 mu L) with the score of 4.30 (like to very like).
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Author	Dr HARTIWI DIASTUTI, S.Si, M.Si