

DEVELOPMENT OF BEAUTY SOAP FROM SEDIMENT OIL GAINED AS A BY PRODUCT IN VIRGIN COCONUT OIL PRODUCTION

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ABSTRACT

Basically soaps are manufactured using fats and oils with sodium hydroxide or potassium hydroxide as lye. Properties of the soap vary with fat and oil content in the recipe. This study was done to develop a beauty soap using sediment oil gained from virgin coconut oil production. Soap was produced by using full boiled method. Four recipes were prepared according to different sediment oil levels. Sensory evaluation was carried out to determine the best percentage of sediment oil incorporated. The developed products were evaluated using thirty untrained panelists for colour, odour, texture, hardness and overall acceptability. Chemical analysis of prepared soaps was done to determine total alkali, total fatty matter, moisture content and pH. According to the results of sensory evaluation recipe 2 which has 40% of sediment oil has the overall best results for acceptance ($P < 0.05$). According to the results of chemical analysis recipe 4 which has 60 % of sediment oil has the overall best results for acceptance ($P < 0.05$). Therefore it could conclude that there is a possibility of production of beauty soap from sediment oil commercially.

Key words: Full boiling method, Lye, Sediment oil, Virgin coconut oil