

INTI SARI

Penelitian ini mengenai formulasi dan uji sifat fisis sabun *translucent* berbahan dasar VCO dengan minyak cengkeh, minyak sereh dan minyak kayu putih sebagai *fragrance oil*. Penelitian ini bertujuan untuk melihat ada tidaknya perbedaan sifat fisis dari sabun dan gambaran penerimaan konsumen terhadap sabun *translucent* yang telah diformulasikan.

Sabun *translucent* diformulasikan dan diuji sifat fisis. Sifat fisis yang diteliti meliputi kekerasan dan kemampuan membentuk busa. Data uji kekerasan dan kemampuan membentuk busa dianalisis secara statistik. Analisis statistik yang digunakan adalah *One way Anova*, *Kruskal Wallis*, *Paired T Test*. Selain itu untuk mengetahui gambaran penerimaan konsumen terhadap sabun dilakukan *subjective asesment*.

Dari hasil uji statistik yang dilakukan didapatkan bahwa kekerasan sabun *translucent* dengan *fragrance oil* minyak cengkeh, minyak sereh, dan minyak kayu putih terhadap sabun di pasaran tidak berbeda. Untuk kemampuan membentuk busa, sabun tanpa minyak atsiri sebagai *fragrance oil* lebih banyak menghasilkan busa. Berdasarkan hasil *survey subjective asesment* yang dilakukan, sabun yang dibuat tidak diterima di pasaran.

Kata kunci : sabun *translucent*, VCO, sifat fisis, *fragrance oil*, minyak cengkeh, minyak sereh, minyak kayu putih

ABSTRACT

This research is on formulation and testing physical properties of translucent soap using VCO as the starting material with clove oil, citronella oil, and cajuput oil as fragrance oil. This study aims to see whether the differences in physical properties of soap are present or not and to see the description of consumer acceptance toward *translucent* soap which has been formulated.

Translucent soap is formulated and tested of its physical properties. Physical properties which are studied include hardness and ability to form foam. Hardness test and foamability data is statistically tested. Statistical analysis used was *One way ANOVA, Kruskal Wallis, Analysis of Univariate, Paired T Test*. In addition to know the description of consumer acceptance of the soap, the writer used *subjective assessment*.

Statistical analysis showed that there are no different with the hardness of *Translucent* soap with fragrance oil of Clove oil, Citronella oil, and Cajuput oil toward the soap in the market. For the foamability, *translucent* soap without essential oils as fragrance oil is more productive to form foam. Based on the results of *subjective assessment survey*, the soap which has been made is not accepted.

Keywords : *translucent* soap, VCO (Virgin Coconut Oil) , physical properties, fragrance oil, clove oil, citronella oil, cajuput oil