

ABSTRACT

This study aims to obtain the best formulation of organic liquid soap based on papaya extract and turmeric extract. Papaya extract was chosen because of its anti-fungal properties while turmeric extract was anti-bacterial. The papaya extract used was 1,5 mL, 3 mL and 4,5 mL, while the turmeric extract was 0,1 g, 0,2 g and 0,3 g. The resulting soap was then tested including pH, density, total plate number, and yeast mold number. All samples of papaya extract soap tested met the Indonesian National Standard (SNI) 4085:2017 in terms of pH, and Yeast Mold Number (AKK) while the Total Plate Number (ALT) test did not meet the standard. When 0,3 g of turmeric extract was added to the papaya extract soap, ALT and AKK were in accordance with the Indonesian National Standard (SNI) 4085:2017.

Keywords : soap, pepaya extract, tumeric extract, total plate number, and yeast mold number.