

ABSTRACT

Yossy Rahmawati, Formulation and Quality Testing of Rosella Flower Extract Solid Soap (*Hibiscus sabdariffa* L.). Supervised by Lukky Jayadi, S.Farm., M.Farm., Apt.

Antiseptic solid soap is soap that has the ability to stop and kill the development of bacteria on the surface tissue of the skin. One natural ingredient that is thought to be effective in inhibiting bacterial growth is the rosella flower (*Hibiscus sabdariffa* L.). This research aims to formulate and test the quality of solid soap with the addition of rosella flower extract (*Hibiscus sabdariffa* L.) based on the SNI 3532:2021 standard. Solid soap is formulated with the addition of rosella flower extract at four different concentrations, namely 0%, 3%, 6%, 9%. The effectiveness test was carried out using the disc diffusion method, where paper discs soaked in a soap solution from each formula were placed on agar media that had been inoculated with *Salmonella typhi*. The petri dish was then incubated at 37°C for 24-48 hours. The test results showed that there was no inhibition zone around the disc paper, which indicated that the rosella extract solid soap was not effective in its antibacterial activity. Based on SNI 3532:2021 standards, with pH test results, water content (concentrations F1, F2, F3), materials insoluble in ethanol (concentrations F0, F1, F2), and chloride content (concentrations F0, F1, F2) meet the requirements quality. The conclusion of this research is that the addition of rosella flower extract to solid soap has not been effective in inhibiting the growth of *Salmonella typhi* bacteria.

Keyword : *Salmonella typhi*, SNI quality standards, solid soap, rosella