

A Review on Formulation and Evaluation of Herbal Soap for Antimicrobial Activity

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Abstract: *The objective of our research is to create an herbal hygienic soap through a cold process method, incorporating an antimicrobial agent. The soap was formulated using coconut oil, castor oil, neem oil, lavender oil, rose oil, and NaOH (lye), along with various extracts integrated into the primary saponification process. We prepared the herbal formulation and conducted evaluations to analyze its pH, moisture content, foaming index, foam retention time, saponification, total fatty matter (TFM), and antimicrobial properties by comparing different concentrations of the soap solution to a standard. The herbal soap demonstrated promising antimicrobial effectiveness when compared to antibiotics. Additionally, the oils included are beneficial for treating various skin infections and are suitable for everyday use.*

Keywords: Poly herbal soap, Evaluation, saponification value, antimicrobial potential