

Examining the Safety and Effectiveness of Herbal Soaps: A Comprehensive Analysis

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Abstract: *Our study's objective is to create herbal hygienic soap with an antibacterial component by employing the cold process method. Several extracts were added to the basic saponification reaction while coconut oil, castor oil, neem oil, lavender oil, rose oil, and NaOH (lye) were used to produce herbal soap. The herbal formulation was made and assessed for TFM (total fatty matter) soluble matter, pH, moisture content, foaming index, foam retention duration, saponification, and antibacterial tests using various concentrations of soap solution in comparison to standard. When compared to antibiotics, the antibacterial properties of the herbal soap are satisfactory. Additionally, oils are added for everyday use and to treat different types of skin infections*

Keywords: Hygienic, antibacterial, cold, Saponification Reaction, TSM, Antibiotic, Infections