

A Research on Formulation and Evaluation of Herbal Bael Soap for Eczema

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Abstract: Eczema is a common chronic skin disorder marked by inflammation, itching, and redness, often requiring long-term treatment. The present study aims to formulate and evaluate an herbal soap using Bael (*Aegle marmelos*) leaves extract, traditionally known for its anti-inflammatory, antimicrobial, and skin-soothing properties, as a natural treatment option for eczema. The soap was prepared using the cold process method with natural oils and additives to enhance its therapeutic efficacy and skin compatibility. The formulated soap was evaluated for key physicochemical parameters such as pH, hardness, foamability, cleansing ability, and skin irritation potential. Microbiological studies were conducted to assess antimicrobial activity against skin pathogens commonly associated with eczema. Preliminary findings indicate that the herbal Bael soap meets standard quality criteria, is well-tolerated on the skin, and exhibits notable antimicrobial and soothing effects. These results suggest that Bael leaf-based herbal soap could offer a promising alternative or complementary approach to conventional eczema treatments.

Keywords: Aegle marmelos, Herbal soap, Eczema, Cold process method, Natural formulation, Anti-inflammatory

