

# Formulation and Evaluation of Sandalwood Soap

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**Abstract:** *The formulation and evaluation of herbal soap using sandalwood (*Santalum album*) aim to explore the potential of natural ingredients in personal care products.*

*Sandalwood is known for its antimicrobial, anti-inflammatory, and aromatic properties, making it an ideal candidate for skin-friendly cleansing formulations. In this study, sandalwood powder and essential oil were incorporated into a soap base using the cold process method. Additional natural ingredients such as coconut oil, palm oil, and glycerin were used to enhance moisturizing and cleansing properties. The formulated soap was evaluated for various physicochemical parameters, including pH, foam height, hardness, total fatty matter (TFM), and stability over time. Microbial analysis and skin irritation tests were also conducted to assess safety and efficacy.*

*The results indicated that the sandalwood soap met standard quality parameters and demonstrated favorable skin compatibility, suggesting it as a viable natural alternative to synthetic soaps. This study highlights the potential of incorporating traditional herbal ingredients into modern skincare products..*

**Keywords:** saponification, botanicals, Ayurvedic, Herbal ,pH analysis, Hardness test

