

Explore the Cosmetic Potential of *Butea Monosperma* in Body Wash Formulation

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Abstract: The demand for natural and herbal-based cosmetic products is increasing due to growing awareness of the potential side effects associated with synthetic ingredients. This study focuses on the formulation and evaluation of a body wash using *Butea monosperma* flower extract, traditionally known for its medicinal and dermatological properties. The extract was obtained using maceration, followed by incorporation into a body wash base containing natural surfactants and moisturizers. The product was evaluated for organoleptic properties, pH, viscosity, foaming ability, stability, antimicrobial activity, and skin compatibility.

Comparative analyses were conducted with herbal alternatives like *Neem* (*Azadirachta indica*), *Aloe vera* (*Aloe barbadensis*), and *Calendula* (*Calendula officinalis*). Results showed that the *Butea monosperma* body wash had a skin-friendly pH, stable formulation, good foaming properties, and superior antimicrobial activity. The formulation proved effective in maintaining skin hygiene and health without causing irritation, validating the potential of *Butea monosperma* as a primary herbal ingredient in commercial body care formulations.

Keywords: *Butea monosperma*, herbal cosmetics, body wash, antimicrobial, formulation, evaluation.

