

# Formulation and Evaluation of Herbal Neem & Aloe Vera Based Anti-dandruff Shampoo

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**Abstract:** *This research focused on the development and evaluation of an advanced anti-dandruff shampoo harnessing the synergistic properties of Neem leaves and Tulsi. These botanical wonders not only lend antimicrobial and anti-inflammatory attributes but also enrich the formulation with their natural essence. Dandruff, a prevalent scalp disorder attributed to yeast overgrowth, particularly the presence of Malassezia fungus, prompted the need for a holistic solution.*

*Conventional shampoos, laden with antifungal agents, often induce unwelcome side effects like hair loss and discomfort. In response, the formulation of a Neem-based anti-dandruff shampoo was undertaken, prioritizing a safer and healthier alternative to chemical-based counterparts. The herbal amalgamation incorporates Neem leaves extract as the active pharmaceutical ingredient for anti-dandruff efficacy, Tulsi leaves for their antimicrobial prowess, and Aloe vera for its moisturizing effects.*

*A comprehensive evaluation ensued, encompassing visual inspection, foaming capacity, pH balance, viscosity, and foam consistency. The results not only validate the efficacy of the formulated shampoo but also underscore its safety and holistic approach towards maintaining scalp health. This research endeavors to contribute to the development of herbal alternatives, paving the way for a natural and effective solution to the persistent issue of dandruff.*

**Keywords:** neem, Aloe vera, Lavender Oil, Tea tree oil

