

Formulation and Evaluation of Hair Fall Control Herbal Hair Oil

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Abstract: Hair fall is a significant concern affecting millions globally, often leading to psychological distress and reduced self-esteem. The increasing demand for natural and safe alternatives to synthetic hair care products has paved the way for herbal formulations. This research focuses on the formulation and evaluation of an effective herbal hair oil intended for hair fall control. Various medicinal plants with proven benefits such as *Emblica officinalis* (Amla), *Eclipta alba* (Bhringraj), *Hibiscus rosasinensis* (Hibiscus), *Azadirachta indica* (Neem), and *Cocos nucifera* (Coconut oil base) were selected based on their traditional use and scientific validation. The formulated hair oil underwent several evaluations including organoleptic parameters, pH, viscosity, acid value, saponification value, and stability studies. The oil demonstrated significant improvement in hair strength, reduced hair breakage, and enhanced scalp health during in-vivo and ex-vivo evaluations. The phytoconstituents such as flavonoids, alkaloids, and tannins present in the herbs exhibited synergistic action, contributing to improved hair follicle nourishment and reduced hair fall. This study also incorporates a thorough literature survey to validate the effectiveness of the chosen herbs and describes their mechanism of action at the molecular level. Overall, the research emphasizes the potential of herbal hair oils as a sustainable, cost-effective, and efficacious solution for managing hair fall, and highlights the advantages of incorporating traditional knowledge into modern pharmaceutical and cosmetic formulations.

Keywords: Herbal hair oil ,Hair fall control ,Polyherbal formulation ,Amla ,Bhringraj ,Hibiscus ,Neem ,Coconutoil ,Phytoconstituents ,Scalp nourishment ,Natural cosmetics ,Hair care.

