

Formulation and Evaluation of Potential Herbal Hair Oil

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Abstract: The growing consumer trend towards natural and safer versions of synthetic cosmetic products has created an interest in herbal formulations for hair care. This research targets the formulation and assessment of a possible herbal hair oil using conventional known medicinal plants. Selected herbs like *Emblica officinalis* (Amla), *Eclipta alba* (Bhringraj), *Hibiscus rosa-sinensis*, *Azadirachta indica* (Neem), and *Trigonella foenum-graecum* (Fenugreek) were blended with a compatible carrier oil base consisting of coconut and castor oil to achieve improved therapeutic activity. The preparation was carried out by conventional infusion methods and checked for different physicochemical parameters like pH, viscosity, acid value, saponification value, and refractive index. In addition, organoleptic characteristics, microbiological stability, and hair growth-stimulating activity were measured by *in vitro* and initial *in vivo* assays. The findings proved that the developed herbal hair oil had good stability, appropriate sensory qualities, and strong potential for stimulating hair growth and inhibiting frequent scalp disorders such as dandruff. The formulation is of potential importance as a natural and effective alternative to chemical hair care products, which deserves additional clinical confirmation.

Keywords: Herbal Formulation, Oil, Herbal oil, Hair oil

