

# “Formulation & Evaluation of Herbal Hair Spray for Hair Rejuvenation & Hair Care”

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**Abstract:** Hair-related problems such as excessive hair fall, thinning, dandruff, and scalp infections have become increasingly common due to various lifestyle choices, poor nutrition, environmental pollution, and frequent use of chemical-laden hair products. These issues often lead individuals to seek natural and safer alternatives for hair care. Herbal remedies have gained widespread acceptance due to their effectiveness, minimal side effects, and traditional usage in various systems of medicine like Ayurveda. This study aims to formulate and evaluate a herbal hair spray designed specifically for hair rejuvenation. The formulation includes seven medicinal plants known for their beneficial effects on hair and scalp health: *Coriandrum sativum* (Coriander), *Nigella sativa* (Black cumin), *Centella asiatica* (Gotu kola), *Phyllanthus emblica* (Amla), *Azadirachta indica* (Neem), *Trigonella foenum-graecum* (Fenugreek), and *Murraya koenigii* (Curry leaves). These herbs are traditionally used to strengthen hair roots, reduce hair fall, prevent scalp infections, and improve overall hair texture and shine. Each ingredient is rich in natural compounds such as antioxidants, vitamins (especially vitamin C and beta-carotene), flavonoids, and essential oils that promote hair growth and protect the scalp from microbial infections and oxidative stress. The formulation process involved the preparation of individual herbal extracts, which were then blended in optimal ratios and combined with natural preservatives and moisturizing agents. The final herbal spray was subjected to evaluation for key parameters including physical appearance, pH, sprayability, and stability under different conditions. Additionally, user satisfaction was assessed through a small-scale trial. The results indicated that the spray was well-tolerated, stable, and effective in enhancing hair quality. Overall, the formulated herbal hair spray shows significant promise as a natural, holistic solution for hair rejuvenation and scalp care.

**Keywords:** Herbal hair spray, Hair Rejuvenation, Scalp Infection, Medicinal Plant, etc

