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Formulation and Evaluation of Herbal Hair Dye

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Abstract: *In recent years, the demand for natural and chemical-free hair dyes has increased due to concerns about the harmful effects of synthetic dyes. This study focuses on the formulation and evaluation of a herbal hair dye using plant-based ingredients known for their hair coloring and conditioning properties. The key ingredients include Wedelia chinensis, Lawsonia inermis (Henna), Emblica officinalis (Amla), Hibiscus flower, and Fenugreek powder, each contributing to hair color enhancement, nourishment, and scalp health. The herbal powders were extracted using a boiling method with distilled water, followed by filtration and evaporation to obtain concentrated extracts. These extracts were then blended in specific proportions to create a homogeneous herbal dye mixture. Wedelia chinensis acts as the primary coloring agent, supported by Henna and Hibiscus Amla, Fenugreek. The dye was evaluated for organoleptic, rheological, physicochemical, and stability parameters. This study highlights the potential of herbal hair dye as a sustainable, eco-friendly, and non-toxic option for hair care. Further research is recommended to evaluate color retention, stability, and user satisfaction.*

Keywords: Wedelia chinensis, Lawsonia inermis