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Formulation and Evaluation of Herbal Lotion of Aloe-Vera

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Abstract: *The demand for herbal-based skincare products has surged due to their perceived safety and efficacy. This study focuses on the formulation and evaluation of a herbal lotion incorporating natural ingredients known for their therapeutic properties. The primary constituents of the lotion include Aloe vera, Neem, and Turmeric, which are renowned for their moisturizing, antibacterial, and anti-inflammatory effects respectively. The formulation process involved the extraction of active components from these herbs, followed by their incorporation into a stable emulsion.*

Various concentrations of the herbal extracts were tested to determine the optimal blend that provides maximum benefits without causing irritation. The lotion's physicochemical properties, such as pH, viscosity, and stability were assessed using standard methodologies. The evaluation phase included in vitro and in vivo testing to ascertain the lotion's effectiveness and safety. The in vitro studies involved antimicrobial assays and antioxidant tests, which confirmed the lotion's ability to inhibit bacterial growth and scavenge free radicals. In vivo testing was conducted on volunteers to evaluate the lotion's moisturizing effect, skin compatibility, and user satisfaction.

Keywords: Aloe-vera, Herbal Lotion, Herbal Cosmetic, Herbal Formulation, Wound Healing, Skin Diseases, Medicinal Plant, Anti-inflammatory, Pharmacological Properties

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