

Evaluation and Formulation of Herbal Aqueous Gel for Mouth Ulcer Treatment

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Abstract: Mouth ulcers are common oral lesions that cause significant discomfort and interfere with daily activities such as eating and speaking. The present study focuses on the formulation and evaluation of a herbal aqueous gel for the effective treatment of mouth ulcers. Herbal extracts known for their anti-inflammatory, antimicrobial, and wound-healing properties—such as aloe vera, clove oil, licorice, and turmeric—were incorporated into an aqueous gel base. The formulation was prepared using a suitable gelling agent and evaluated for physical characteristics like pH, viscosity, spreadability, and stability. In vitro antimicrobial studies and wound-healing assessments were also conducted. The results indicated that the herbal gel possessed desirable physicochemical properties and demonstrated significant healing potential, making it a promising natural alternative for mouth ulcer management.

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