

Formulation and Evaluation of Herbal Wound Healing Cream

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Abstract: Wound healing is a dynamic and multifaceted biological process involving a sequence of overlapping stages: hemostasis, inflammation, proliferation, and remodeling. Effective wound care aims not only to prevent infection but also to accelerate tissue regeneration and minimize scarring. In recent years, there has been a surge in interest toward herbal-based therapies, driven by the limitations of synthetic drugs, including side effects, antimicrobial resistance, and cost. Herbal wound healing creams, formulated using extracts from medicinal plants, have demonstrated significant therapeutic potential due to the presence of diverse bioactive constituents such as flavonoids, phenolic acids, alkaloids, terpenoids, and tannins. These phytochemicals exert a range of beneficial effects including anti-inflammatory, antioxidant, antimicrobial, analgesic, and angiogenic activities, which collectively promote wound contraction, collagen synthesis, epithelialization, and tissue remodeling. Numerous plant species, such as Aloe vera, Calendula officinalis, Curcuma longa, and Azadirachta indica, have been extensively studied for their wound healing properties and are commonly incorporated into topical formulations

Keywords: Curcumin, Lavender Oil, Aloe vera, Anti-inflammatory, Anti Oxidant

