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(54) Title of the invention : FORMULATION AND EVALUATION OF POLYHERBAL OINTMENT FOR WOUND HEALING

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(57) Abstract :

The present invention relates to a novel polyherbal ointment composition for promoting wound healing comprising therapeutically effective amounts of hydroalcoholic extracts of *Azadirachta indica* leaves, *Curcuma longa* rhizomes, *Centella asiatica* whole plant, and *Calendula officinalis* flowers along with fresh *Aloe barbadensis* gel incorporated in an emulsifying ointment base. The polyherbal ointment exhibits synergistic wound healing activity through multiple mechanisms including antimicrobial action against common wound pathogens, anti-inflammatory effects, antioxidant protection, and stimulation of fibroblast proliferation and collagen synthesis. Preclinical evaluation demonstrates accelerated wound contraction, reduced epithelialization period, enhanced tensile strength, and improved histopathological outcomes compared to conventional wound healing agents. The formulation shows excellent physicochemical stability, non-irritant properties, and is cost-effective for commercial manufacturing using locally available medicinal plants.

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