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Formulation and Evaluation of Biodegradable Film Containing Extract of Centella Asiatica for Wound Healing

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Abstract : The main objective of the present investigation was formulation and evaluation of biodegradable film containing extract of centella asiatica for wound healing activity. Thin films have been generally used around the globe for tissue repair and healing of wounds. The solvent casting method used for preparation of films was simple, reproducible and rapid. The formulated films good tensile strength, moisture absorption, and folding endurance. Evaluation parameter of this study it is the appearance, thickness, percent moisture content, folding endurance, *In-vitro* *In-Vivo* studies. The result shows appearance transparent and odour pleasant, thickness of optimized batch is standard size, folding endurance & tensile strength it is 300 ± 11 & 21.92 . *In-Vivo* studies shows wound healing of that the optimized formulation comparing with control & standard it gives better result control 7.2 ± 0.90 , standard 0.84 ± 0.42 , test 0.87 ± 0.37 . Conclusion of this study the biodegradable film was to deliver a drug in a sustained manner for an extent period of time to reduce frequency of application and to improve bioavailability for treating wound infections.

Keywords : Biodegradable film, *Centella asiatica*, solvent casting, Gelatin: sodium alginate: ethylene glycol, healing of wounds.

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