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(54) Title of the invention : DERMAL TOXICITY STUDY OF ETHANOLIC EXTRACT OF BOERHAVIA DIFFUSA LEAVES

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(57) Abstract :

The present invention relates to an ethanolic extract of Boerhavia diffusa leaves and its toxicological evaluation for dermal applications. The extract is prepared using hydroethanolic solvent (70:30) through Soxhlet extraction method, yielding 8.33% extract from dried leaves. Phytochemical screening reveals the presence of carbohydrates, proteins, glycosides, flavonoids, alkaloids, and tannins. Acute dermal toxicity studies conducted according to OECD guideline 402 demonstrate that the extract is safe at doses up to 5000 mg/kg body weight with LD50 greater than 5000 mg/kg. No mortality, adverse behavioral changes, or significant physiological alterations were observed in treated animals except mild drowsiness at the highest dose. The extract shows no dermal irritation, changes in organ weights, or systemic toxicity. These findings establish the safety profile of Boerhavia diffusa leaf extract for topical pharmaceutical formulations and wound healing applications.

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