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(57) Abstract :  
The present invention relates to the evaluation of the acute and sub-acute dermal toxicity of ethanolic extract of Tridax procumbens (EETP) for potential therapeutic and cosmetic use. Acute toxicity studies were conducted following OECD guideline 402, with single-dose applications of 2000 mg/kg and 5000 mg/kg on laboratory animals, monitored for 14 days. Sub-acute toxicity testing followed OECD guideline 410, involving daily application of EETP at doses of 500 mg/kg, 1000 mg/kg, and 2000 mg/kg for 28 days. Observations included clinical signs, behavioral changes, physiological functions, and histopathological analysis. No mortality, adverse effects, or significant toxicity was detected in either study. The extract demonstrated stability in body weight, normal behavior, and absence of pathological changes. These findings indicate that EETP is safe for dermal application at tested doses, making it suitable for incorporation into various therapeutic and cosmetic formulations.

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