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(54) Title of the invention : ANTIPYRETIC ACTIVITY OF ETHANOLIC EXTRACT OF AMARANTHUS SPINOSUS STEM

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(57) Abstract :
 The present invention relates to an ethanolic extract of Amaranthus spinosus stem (EEAS) exhibiting antipyretic activity. The extract is prepared by defatting dried stem material with petroleum ether, followed by ethanol extraction using a Soxhlet apparatus, and drying with a rotatory vacuum evaporator. Antipyretic efficacy was evaluated in brewer's yeast-induced pyrexia models at dosages of 200 mg/kg and 400 mg/kg. Results demonstrated significant, dose-dependent temperature reduction over a four-hour period, with 400 mg/kg EEAS showing comparable efficacy to diclofenac sodium (10 mg/kg). Acute toxicity studies confirmed the safety of EEAS with no adverse effects observed over 14 days. This invention provides a natural, effective, and safe alternative to synthetic antipyretic drugs.

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