Antinociceptive and Antipyretic Activities of Methanol Extract *Amaranthus caudatus* Linn.

Bagepalli Srinivas ASHOK KUMAR 1*, Kuruba LAKSHMAN 2, Korala Konta Narsimha JAYAVEERA 3, Devangam Sheshadri SHEKAR 4 & Chinna Swamy Vel MURAGAN 1

1 Department of Pharmacognosy, Sri K.V.College of Pharmacy, Chickballapur, Karnataka India.
2 Department of Pharmacognosy, PES College of Pharmacy, Bangalore, Karnataka, India.
3 Department of Chemistry, Jawaharlal Nehru Technological University of College of Engineering, Anantapur, Andhra Pradesh India.
4 Department of Pharmacology, Sri K.V.College of Pharmacy, Chickballapur, Karnataka, India.

SUMMARY. The methanolic extract of whole plant of *Amaranthus caudatus* Linn. (MEAC), was tested for antinociceptive (using hot plate method, acetic acid writhing and tail immersion) and antipyretic (using yeast induced pyrexia) activities using mice and rats at doses of 200 and 400 mg/kg body weight. MEAC significantly (p < 0.05) inhibited acetic acid induced writhing and also significantly delayed the reaction time of mice to thermal stimulation produced by the hot plate and hot water in tail immersion test. MEAC significantly (p < 0.01) reduced fever induced by yeast. These results suggest that the MEAC has exhibited significant antinociceptive and antipyretic effects, which were comparable with standard drugs.

KEY WORDS: *Amaranthus caudatus* Linn, Antinociceptive activity, Antipyretic activity.

* Author to whom correspondence should be addressed. E-mail: ashok4vani@gmail.com