



Phytochemical Investigation and Anti-Inflammatory Activity of *Coccinia indica* Wight and Arn. (Cucurbitaceae) Fruits

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SUMMARY. The present work was to study the anti-inflammatory activity of *Coccinia indica* Wight and Arn fruits belonging to family Cucurbitaceae. The fruit powder of *C. indica* was subjected to successive extraction with petroleum ether, chloroform, ethanol and water in a Soxhlet extractor. The ethanol extract after preliminary phytochemical investigation shown the presence of glycosides, triterpenoids, flavonoids, tannins and phenolic compounds. The anti-inflammatory activity was studied using carrageenan-induced rat paw oedema and cotton pellet granuloma at three different doses (100, 200 and 400 mg/kg b.w. p.o.) of each extract. The ethanol extract of *C. indica* fruits exhibited significant anti-inflammatory activity at the dose of 200 mg/kg and 400 mg/kg in both models when compared with control group. Indomethacin (10 mg/kg b.w. p.o) also showed significant anti-inflammatory activity in both models.

KEY WORDS: Anti-inflammatory activity, *Coccinia indica*, Indomethacin.

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