

Arjariya S, Nema N. Estimation of antipyretic, palliative and anti-inflammatory potential of methanolic extract of *Terminalia catappa*. *Bull. Pharm. Res.* 2014;4(1):37-42.

**Abstract:** In present study, anti-inflammatory, palliative and antipyretic activities of methanolic extract of *Terminalia catappa* leaves were evaluated in standard experimental models. The results showed that the positive control (Indomethacin) significantly ( $p < 0.05$ ;  $p < 0.01$ ) decreased the paw edema at 1 h to 4 h after carrageenan injection compared to saline with 56.31% to 59.85% inhibition rate. A maximum oedema of paw volume  $1.42 \pm 0.03$  mm was observed in the control rats, 4 h after the carrageenan injection. Also tail flick and hot plate models revealed that methanolic extract significantly ( $p < 0.05$ ;  $p < 0.01$ ) reduced the painful stimulus. This confirmed the involvement of central and peripheral effects of the extract. The extract also possessed antipyretic potential evidenced by significant ( $p < 0.05$ ;  $p < 0.01$ ) induction of pyresis by yeast cell within 3 h. Thus, methanolic extract was found to have wide variety of pharmacological effect in the form of anti-inflammatory, palliative and antipyretic effect which proves the utility of *Terminalia catappa* in experimental pharmacology of cytokines and prostaglandins (PGs).

**Key words:** *Terminalia catappa*, Anti-inflammatory, Palliative, Antipyretic.

References: [28](#)

Total Pages: 06

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