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(57) Abstract :

The present invention relates to a pharmaceutical composition incorporating an ethanolic extract of Euphorbia milii leaves (EMEE) for anti-inflammatory activity. The extract is obtained using Soxhlet extraction with 95% ethanol, ensuring a high yield of bioactive compounds such as flavonoids and phenolics. The anti-inflammatory potential was evaluated using a carrageenan-induced paw edema model in rats, where EMEE exhibited dose-dependent inhibition of inflammation, with 400 mg/kg showing significant efficacy (57.33%) compared to diclofenac sodium (66.00%). The formulation can be developed into oral and topical delivery systems, including nanoemulsions, liposomes, and gels, to enhance bioavailability and controlled drug release. Statistical analysis confirmed significant anti-inflammatory effects ($P = 0.05$, $P = 0.01$), demonstrating its potential as a natural alternative to synthetic NSAIDs. This invention offers a safe, effective, and sustainable approach to inflammation management with minimal side effects.

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