

(54) Title of the invention : A NOVEL STANDARDIZED HERBAL FORMULATION WITH COMPREHENSIVE PHARMACOLOGICAL AND CHEMICAL EVALUATION FOR THERAPEUTIC APPLICATIONS

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(57) Abstract :

The present invention relates to a novel herbal-based pharmaceutical composition comprising standardized hydroalcoholic extracts of *Curcuma longa*, *Withania somnifera*, *Tinospora cordifolia*, *Phyllanthus emblica*, and *Azadirachta indica* in defined proportions, and a reproducible process for its preparation. The composition is comprehensively characterized through modern analytical techniques including HPLC, HPTLC, FTIR, and GC-MS for identification and quantification of bioactive marker compounds namely curcumin, withaferin A, berberine, gallic acid, and azadirachtin. Pharmacological evaluation demonstrates significant anti-inflammatory, antioxidant, antimicrobial, hepatoprotective, and analgesic activities through validated in vitro and in vivo experimental models. Pharmacognostic standardization including macroscopic, microscopic, physicochemical, and chromatographic parameters ensures quality, safety, and batch-to-batch consistency. The composition provides a safe, efficacious, and cost-effective herbal therapeutic alternative for the management of inflammatory disorders, oxidative stress-related conditions, infections, and hepatic ailments.

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