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(51) International classification	:A61K 36/9066, A61K 36/185, A61K 36/886, A61K 36/00, A61P 29/00	(71)Name of Applicant : 1)JSS COLLEGE OF PHARMACY - JSS Academy of Higher Education &Research Address of Applicant :JSS College of Pharmacy, Rocklands”, Post Box No.: 20, Ooty, The Nilgiris - 643001, Tamil Nadu, India Ootacamund, Ooty Tamil Nadu India
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(57) Abstract :

The present invention relates to a nano-enabled polyherbal topical pharmaceutical composition for the management and treatment of inflammatory conditions. The invention comprises nanocrystallized extracts of Aloe vera, Curcuma longa, Moringa oleifera leaves, Boswellia serrata, and Capsicum species incorporated into a pharmaceutically acceptable oil-in-water cream base. The herbal extracts are converted into nanocrystals having particle sizes in the range of 145 to 183 nanometers to enhance skin penetration, bioavailability, stability, and sustained release of bioactive phytoconstituents. The formulation provides synergistic, multi-pathway anti-inflammatory activity while avoiding adverse effects associated with synthetic non-steroidal and steroidal anti-inflammatory agents. The invention offers a safe, effective, and stable topical therapeutic option suitable for dermatological, musculoskeletal, and localized inflammatory disorders.

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