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(57) Abstract :

The present invention relates to a novel self-nanoemulsifying drug delivery system (SNEDDS) based nanoemulgel formulation for topical delivery of Nimesulide. The composition combines a lipid-based nanoemulsion system with a polymeric gel matrix to enhance solubility, skin permeation, and modified drug release. The nanoemulgel exhibits nanoscale droplet size, high stability, controlled release, enhanced anti-inflammatory efficacy, and reduced systemic side effects. The invention provides a patient-friendly, effective, and safe topical alternative to conventional Nimesulide formulations.

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