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(57) Abstract :

The present invention relates to the formulation development and characterization of a nanoemulgel for enhanced percutaneous delivery of ketoprofen. The nanoemulgel comprises ketoprofen incorporated into a nanoemulsion system stabilized by a suitable oil phase, surfactant, and co-surfactant, which is subsequently embedded within a gel matrix to form a semisolid topical formulation. The invention improves solubility, skin permeation, and localized bioavailability of ketoprofen while providing sustained drug release and enhanced stability. The developed nanoemulgel demonstrates superior physicochemical properties, improved in vitro release, and enhanced ex vivo skin permeation compared to conventional topical formulations, thereby reducing systemic side effects and improving patient compliance in the treatment of pain and inflammatory conditions. Accompanied Drawing [FIGS. 1-2]

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