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(57) Abstract :
The present disclosure relates to a method for optimizing and characterization of efinaconazole transfersomal gel formulation. In an aspect, the method (100) comprises steps of performing pre-formulation studies (102), developing transfersomes (104), by a solvent evaporation method, analyzing (106) the developed transfersomes (104), preparing transfersomal gel (108), by dispersion, hydration, and neutralization, evaluating efinaconazole loaded transfersomal gel (110), selecting optimum efinaconazole transfersomal formulation system (114), based on the particle size and entrapment efficiency; minimizing the vesicle size, characterizing optimized ketoconazole transfersomal formulation (116), based on vesicular shape, morphology and partial differential equations (PDE), Entrapment efficiency, diffusion studies.

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