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(57) Abstract :

The present invention relates to prepare, optimize and evaluate self-nano emulsifying drug delivery system (SNEDDS) containing 18- ß glycerrhetinic acid which enhances the dissolution profile or bioavailability. Formulations were prepared by using pseudo ternary phase diagram and Box-Behnken experimental design was used to optimize the different formulations. Optimized formulations were characterized for self-emulsifying time, globule size, zeta potential, and drug release. The mean droplet size and PDI of the optimized

formulation were found to be in a variation of 93.42 nm and 0.401 respectively. The encapsulation efficiency of optimized 18- ß glycerrhetinic acid SNEDDS was found 80.12±1.52% , % transmittance was found 99.34±0.134% and the viscosity of all the formulations was found 0.8872 cp.

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