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(57) Abstract :

Aqueous solubility enhancement of telmisartan through Liquisoild compact development is the proposed invention. Solubility enhancement strategies play a vital role in formulating effective drug products that ensure optimal absorption, bioavailability and therapeutic outcomes. A comprehensive understanding of aqueous solubility is crucial for the successful development of oral solid formulations with improved therapeutic outcomes. Various approaches are applied in formulation development for solubility enhancement of poorly aqueous soluble drugs, in which the development of the liquisolid compact is a promising approach for improving the solubility, dissolution and bioavailability of poorly soluble drugs. With their versatility and potential benefits, they have gained attention as a valuable tool in the formulation of oral solid dosage forms. Furthermore, liquisolid compacts can be conveniently compressed into tablets or filled into capsules, making them suitable for oral administration. Considering these advantages, this study aims to enhance the solubility of Telmisartan by developing liquisolid compacts using Polyethylene Glycol (PEG), Microcrystalline Cellulose (MCC), Colloidal Silica and Cross povidone as excipients.

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