



Approaches for Solubility enhancement of Floroquilones(Second Generation) during Scale Up Procedures

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Abstract : Poor dissolution descriptions of water-insoluble drugs are a chief limitation in drug bioavailability and often pose a problem to scientists. Several techniques for solubility enhancement have been tried in this context. Solid dispersion technology is one such technique. Though, there was an excessive attentiveness in solid dispersion technology during the past times to increase solubility of poorly water-soluble drug, their lucrative use has been partial, because of manufacturing and stability problems. In the current work two such approaches were tried i.e., solvent evaporation and melting method. In solvent evaporation method, the drug was combined with lactose & mannitol and in melting method drug was combined with polymer PEG-6000. The % yield by these techniques was 88.1% and 94.5% respectively. These dispersions when formulated as tablets yielded tablets with good oval appearance, dissolution rate, solubility and stability.

Keywords : Solid dispersion, Solubility, Solvent evaporation, Melting method, Stability.

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