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PROPERTY IMPROVEMENT OF PHARMACEUTICAL APIS USING CO-CRYSTALLIZATION AS A UNIQUE APPROACH OF PARTICLE ENGINEERING

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Majority of APIs in existence and in the drug discovery process belong to poorly water soluble class. Poor physicochemical properties of API results in to poor bioavailability. Now a day, industry is fighting with the bioavailability issues of APIs. Not only the physicochemical properties but also the mechanical properties of API should be in favor to achieve the successful formulation. Flow and compactibility of particles or powder are the most important consideration in the solid dosage manufacture. Majority of research works are based on the improvement of bioavailability of API using various approach. Very few or none of the works have been done to improve physicochemical as well as mechanical properties simultaneously. Co-crystallization is a particle engineering technique which can be used to modify and improve both the properties simultaneously. Pharmaceutical industries are more interested in the process of manufacturing the dosage forms with minimum steps, less time consuming and of course less laborious way. Co-crystallization technique can lead to the better formulation as an oral drug delivery with fast processing.

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