

Pure indomethacin-saccharin cocrystal powders by a combination of antisolvent and cooling methods

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Indomethacin (IMC) is a nonsteroidal anti-inflammatory drug (NSAID) classified as BCS II. Recently reported anti-solvent method was saccharin used in obtaining indomethacin co crystal. Also, the method was capable of remodeling co crystal powder and showed significant advantages in terms of scale-up.

In this study, we try to enhance the yield and purity of the crystal by combining the cooling method and anti-solvent method. Especially the cooling time point was important variable. The four kinds of cooling time points was observed the other crystal the purity and yield, crystallinity. These studies is eliciting indomethacin-saccharin co crystal formation process the optimum conditions.

X-ray diffraction (XRD) and differential scanning calorimetry (DSC) were performed to characterize the off-line physicochemical properties of co-crystal powders. Near-infrared (NIR) spectroscopy was performed to Observe of the in-line process monitoring.

More detailed data and findings shall be presented for a professional discussion.