Effect of variation of molar ratio on the co-crystal formation

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Molecular interactions responsible for the formation of molecular complexes of active pharmaceutical ingredients(APIs) with other compounds are important not only because of the ability to control pharmaceutical properties without changing covalent bonds, but also because they can be used in the design of new materials. In this study, we have found the appropriate co-former on APIs and processing conditions on co-crystal formation. we focus on the effect of molar ratio on co-crystal formation. The outcome solid forms are identified by analysis technique that powder X-ray diffration(PXRD) and differential scanning calorimetry(DSC).