Recrystallization of drug particles using SAS and RESS process

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In this study, we tried to recrystallization adefovir dipivoxil using supercritical antisolvent (SAS) process and rapid expansion of supercritical solution (RESS) process. Supercritical anti-solvent and Rapid expansion of supercritical solutions (RESS) technology are generally reconized as a well-established technique for producing nano to micron-sized particles from a single component, especially from organics and polymers. The SAS and RESS process are reducing the particle size using the supercritical fluid. The size of adefovir dipivoxil particles by SAS and RESS process can be controlled by adjusting parameters such as temperature, pressure, nozzle diameter, ratio of flow rates of supercritical CO_2 .