

Recrystallization of Cephalosporin Antibiotics with Supercritical Fluids

주준호, 리광화¹, 노경호¹, 임종성², 이윤우*
서울대학교 화학생물공학부; ¹인하대학교 생명화학공학과;
²서강대학교 화공생명공학과
(ywlee@snu.ac.kr*)

Cephalosporin Antibiotics was crystallized by using an Aerosol Solvent Extraction System (ASES) with supercritical CO₂, where the particle size and morphology was investigated according to pressure, concentration, and solvent. The yield of particles that were collected in the separated membrane filter was about 80%. The particles were analyzed by a Scanning Electron Microscopy (SEM), which showed that the size of primary particle was measured to be 100~200nm and the morphology is similar to spherical type. The secondary particle size was about 300~600nm as a result of primary particle agglomeration.