Author: Retno Sari-1, Achmad Radjaram-2, Dwi Setiawan-3

Abstract:

The aim of this study was to improve the dissolution rate of piroxicam, which is poorly soluble drug by preparing solid dispersion using HPMC 3 cps. Solid dispersion was prepared with ratio 1:3 and 1:5 w/w by solvent method, then the system was adsorbed in Emcompress. The dissolution profile of solid dispersion and physical mixture were studied according to USP XXIII monograph type I using liquid gastric media without enzym. Dissolution rate of solid dispersion with ratio 1:3 increased 25 fold in 5 minutes as compared with pure drug, while the physical mixture increased 10 fold. The dissolution rate of solid dispersions showed better result than the physical mixture and pure piroxicam.

(end)