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Pengaruh polivinil pirolidon terhadap laju disolusi furosemid dalam sistem dispersi padat

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Abstrak

The research to accelerate furosemide, dissolution rate has been done through physical property modification by solid dispersion forming polyvinylpyrolidone (PVP) carrier with solvent method. Pure furosemide prosses property of being practically insoluble in water and has low biovailability. In current research, six weight ratio of furosemide to PVP being used are 1:1;1:3;1:5;1:9 and 1:15. Physical mixtures are made in equivalent weight ratio. The dissolution rate was examined by paddle method in phosphat buffer pH5,8. Solid dispersion caracterised with in vitro dissolution study, X -ray diffraction, infra red spectrophometer and differential scanning calometric. The result shows that solid dispersion of furosemide with PVP carrier is lugher compare to physical mixture dissolution rate and pure furosemide. The ratio furosemide to PVP who has the lughest dissolution rate is 1:15. The analyzing shows the existing of altering crystaline to amorphous state.