

ABSTRACT

Recent developments in technology have presented viable dosage alternatives for patients who may have difficulty swallowing conventional tablets or liquids. For example geriatric and pediatric who may have difficulty swallowing them. The alternative dosage form is called Orally Disintegrating Tablet (ODT). Orally Disintegrating Tablet have presented alternative tablets that easily disintegrate or dissolve in saliva, within a few seconds without the need of water. A Research then carried out to observe the impact of added functionality HPMC 2910 3 cps as binding agent in various amount to orally disintegrating tablet physical characteristics and dissolution rate of Piroxicam that have been granulated using wet granulation method. Different concentrations of HPMC 2910 3 cps of 0,5%, 1% and 1,5% were used various amount of binder is to observe the significant difference in both physical characteristics including hardness, friability value, disintegration time and dissolution rate. After physical characteristics and dissolution testing conducted, the result was analysed by statistic programme of SPSS 11.5 using one way analysis of variance in 95% confidence interval. From this research it could be concluded that was addition of HPMC 2910 3 cps as binder in the amount of 0,5% is constituted the optimal formula.

Keywords : Orally Disintegrating Tablet, Piroxicam, Binder, HPMC 2910 3 cps.