

Abstract

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Title of Thesis: Evaluation of the properties of granules and tablets
prepared from starch

In this thesis, the flow properties of granules prepared from potato and/or corn starch respectively, using two types of disintegrants (croscarmellose or sodium starch glycolate) by fluid bed granulation were studied. The particle size distribution, the bulk and tapped density and flow rate of granules and their porosity by gas pycnometer were determined. After the addition of magnesium stearate (0,5 %) the tablets were compressed and their strength and disintegration time were evaluated. The significant effect of type of starch and disintegrants for the disintegration time was proved ($p \leq 0,01$); the strength of tablets was significantly ($p \leq 0,01$) influenced by only type of disintegrant. The best bulk properties and the shortest disintegration time were observed for the granules made from potato starch in combination with croscarmellose.