

Juhaňáková Jana – diplomová práce – 2006

The diploma theses deal with the measurement of mechanical resistance of tablets on basis of force - displacement record. The new method compared to the classical method characterizes mechanical resistance by means of destruction and destructive energy. Theoretical part of the work describes characterization and distribution of granules and tablets, characterization of additives used for production of tablets. It deals with the starch group in detail as well. The aim the experimental work was the determination of optimal parameters for measurement of the kinetics of destruction of tablets, preloading, rate of preloading a cycle. Commercially produced tablets of Paralen 500 were evaluated.

The optimal parameters for the measurement of mechanical resistance of tablets by means of T1 – FRO 50 by differential record method are the following: preloading 0.1 N, preloading rate 0.1 mm/s, cycle rate 1.0 mm/s