

## **Summary Viscosity and surface activity of the solutions of polyester carriers**

**Student: Martina Šanderová Tutor: Assoc. Prof. Dr. Milan Dittrich, PhD. Department of Pharmaceutical Technology, Faculty of Pharmacy in Hradec Kralove, Charles University in Prague, Czech Republic**

This dissertation targets the viscosity research and the surface activity research of the solutions of polyester pharmaceutical carriers. In the theoretic part of this work we generally disserted upon the viscosity, upon the surface and the intersurface tension, upon the biodegradable polymers and polyesters of aliphatic hydroxyacids. In the experimental part of this persuit we disserted on measurement and on evaluation of kinematic viscosity and the intersurface tension of different concentrated solutions of linear copolymers of the glycolic acid and D,L-lactic acid or of branched terpolymers of the glycolic acid and D,L-lactic acid. The forked adduckts were mannitol and three pentaerytritols with multiply units of quantity. Chloroform was used as solvent. For measurement of the intersurface tension was used the measuring method with using the platinum plate in accordance with Wilhelm. The results will may be used at the formulation optimalization of biodegradable preparations of the monolithic or particulate type.