

# Abstract

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Název práce: Influence of solvent on the size of polyester nanoparticles

In the theoretical part of this thesis the methods of fabrication of nanoparticles and their evaluation are described. It further explores the biodegradable polymer of glycolic acid and lactic acid and in particular the nanoparticles prepared from this polymer. The main objective were the results of an experiment which explored some of the technological parameters of formulation of biodegradable particles made from terpolymer of DL-lactic acid, glycolic acid and tripentaerythritole by o/w emulsion method. The aim was to create the smallest possible nanoparticles using the standard procedure. The study sought the optimal concentration of emulsifier cetrimide. It evaluated the influence of the concentration of emulsion and the concentration of the polyester carrier and terbinafine as a model drug for the assessment of granulometric parameters of prepared particles. For an intended use of the method the storage of samples at low temperature after the addition of mannitol was granulometrically evaluated.