

ABSTRACT

In the theoretical section of presented diploma thesis are discussed various nanoparticles such as micelles and liposomes, solid lipid nanoparticles and polymeric nanoparticles. Special attention was focused on copolymer PLGA. There are characterized different procedures in the preparation of nanoparticles. From the approaches for nanoparticles evaluation are chosen measuring size of nanoparticles and their zeta potential. The experiment was almost unambiguously focused on study of effect of different factors on nanoparticles size and distribution from linear PLGA and PLGA used for branching of triphosphorythritol and polyacrylic acid.

Keywords: nanoparticles, size, size distribution, zeta potential, interactions of nanoparticles