

## Electrospinning of ultrafine fibers from solutions of amino-containing polymers

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### Abstract

The possibility of obtaining ultrafine fibers by the electrospinning from the amino-containing poly(alkylmethacrylate) esters Eudragit E in organic solvents and in aqueous solutions of acetic acid was shown. The optimization of the electrospinning was carried in installation for spinning Nanospider™. When electrospinning solutions in binary solvent ethanol – chloroform (60:40) there were obtained fibers with thickness 0.5-1.0 microns. It has been found that the use of aqueous acetic acid resulted in more fine fibers. Nanosized fibers were prepared from 17-22% solutions of Eudragit E in 70% acetic acid. The possibility of spinning chitosan-containing fibers from the mixture of chitosan and Eudragit E was shown.