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SYNTHESIS OF MONODISPERSE LATEXES TO CREATE IMMUNODIAGNOSTIC DRUGS

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Monodisperse latexes are the main raw material for the production of immunodiagnostic drugs. Doing a search in scientific journals and on the internet one can find plenty of publications in which provided recipes are synthesis of monodisperse latex. After reading these recipes, one can make a conclusion that the monodisperse latex is prepared likely intuitively than using programmed recipes. The main method for producing monodisperse latexes is polymerization in a highly dispersed monomer-water system (emulsion polymerization). The report presents the results of the study of the mechanism of formation of latex particles in the polymerization of different monomers in a heterogeneous static monomer-water system. Based on this study, author has developed recipes for the synthesis of monodisperse latexes. The report demonstrates electron photographs of particles of the latexes synthesized based on chloroprene, styrene and vinyl acetate.

Note: