

PLGA Nano Particles Stabilized by
Biodegradable mPEG-PLA Di-block Copolymer for
Emulsification-Diffusion method

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Polymeric particles made of PLGA have been increasingly studied for therapeutic applications such as controlled release and drug targeting. Stealth nanoparticles were investigated to avoid rapid uptake of drug carriers by cell of the mononuclear phagocyte system (MPS) and reticuloendothelial system (RES). Poly(ethyleneglycol) (PEG) is attached onto stealth nanoparticle surface to avoid recognition by cell of the MPS and physical adsorption. Emulsification-Diffusion method was used to prepare stealth nanoparticles. mPEG-PLA di-block copolymer was used as surfactant. We determined PEG surface density and size. Variables for preparing nanoparticle were surfactant concentration and PLGA molecular weight of copolymers.