

Preparation and characterization of Fe_3O_4 encapsulated Polyaspartamide Derivatives nanoparticle for MR imaging application

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As the succinimide ring in poly(succinimide)(PSI) readily reacts with primary amines, It is easy to introduce a variety of pendant group. In this study functional groups are grafted the PSI chain. They are Fluorescein isothiocyanate(FITC), Poly(ethylene glycol)(PEG), magnetite (Fe_3O_4), and folic acid. The result product has a potential possibility as MR & optical imaging agent.