

Multifunctional Magnetic Nanoparticles – Preparation and Characterization

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ABSTRACT

Iron oxide (IO) nanoparticles have received great attention owing to their ease of synthesis and biocompatible property. IO nanoparticles have been studied extensively for distinct applications in molecular tracking, cell separation, tissue-specific drug delivery and hyperthermia. In the present study a facile method was developed to prepare protein conjugated magnetic nanoparticles (MN). The MN were characterized using UV-Vis spectrophotometer and particle size analyzer. The MN will further be studied for their role in imaging and drug delivery.