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Magnetic nanoparticles coated with cyclodextrins and citrate for irinotecan delivery

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Highlights

- Smaller MNPs size using β - and HP- β cyclodextrins and citrate
- Higher MNPs colloidal stability and IRI loading and efficient delivery
- Similar cytotoxicity of the IRI citrate-coated BCD-MNPs and free irinotecan

Abstract

In the present work, we study the role of different components in the formation of more stable iron oxide magnetic nanoparticles (MNPs): β -cyclodextrin (BCD), 2-hydroxypropyl- β -cyclodextrin (HP) and citrate anion. MNPs formulations were characterized by FTIR, particles size measurements,

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