

عنوان مقاله:

Electospinning of Cyclodextrin Functionalized Chitosan Nanofibers as Drug delivery System

محل انتشار:

دهمین سمینار بین المللی علوم و تکنولوژی پلیمر (سال: 1391)

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خلاصه مقاله:

Cyclodextrins(CDs) are a family of cyclic oligosaccharides, composed of D-glucose units[1].Grafting CD molecules onto chitosan(CS) reactive sites(CS-g- β -CD) may lead to molecular carrier that increase the transport properties of CD and mucoadhesive properties of CS[2]. In this study we describe the preparation of a novel type of biodegradable nanofibers from a poly (vinyl alcohol)(PVA)/CS-g- β -CD blends via electrospinning.PVA was used as a non-ionogenic polymer partner due to it being a non-toxic, watersoluble, biocompatible and biodegradable synthetic polymer[3,4,5]. The effects of the spinning solution composition on the average fiber diameters and morphology of the PVA/CS-g- β -CD electrospun fibres have been studied

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