عنوان مقاله:

Synthesis of Poly hydroxybutyrate-Polyethylene glycol-Folic acid (PHB-PEG-FOL) nanoparticles for targeted drug delivery

محل انتشار:

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

تعداد صفحات اصل مقاله: 1

نویسندگان:

Mohammad Rafienia - *Biosensor Research Center, Isfahan University of Medical Sciences, 81744-176, Isfahan, Iran*

Mansooreh sattari - *BioMedical Engineering Department, Islamic Azad University of Sciences and research branch Tehran, Tehran, Iran*

Hamid Mobedi - *Novel Drug Delivery Systems Department, Iran Polymer and Petrochemical Institute, P.O. Box: 14965-115, Tehran, Iran*

Mohammad Mahmoudzadeh - *Pharmacy Department, Isfahan University of Medical Sciences, Isfahan, Iran*

خلاصه مقاله:

Poly (3-hydroxybutyrate) (PHB) is a biodegradable and biocompatibility polyester synthesized by a number of bacteria as a reserve of carbon and energy storage compounds[l]. It has been a new research focus lately for application in drug-delivery systems such as nanoparticles [2]. Folate hasbeen employed as a targeting moiety of various anticancer agents to increase their cellular uptake within targeted cells since folate receptors have been identified as cellular surfacemarkers for cancer [3, 4]. In the present study, we show the synthesis of PHB-PEG-FOL to form nanoparticles as a target drug delivery system. The chemical structure of PHB-PEGFOL was evaluated by FTIR and H1NMR. The morphologicaland average size of NPs was assessed by SEM

کلمات کلیدی: