

عنوان مقاله:

Theoretical models for determination of weight percent of PHCS-g-PLLA copolymer using experimental data

محل انتشار:

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خلاصه مقاله:

The amphiphilic graft copolymer using chitosan (CS) as hydrophilic segment and poly (L-lactic acid) (PLLA) as hydrophobic segment, was prepared through a protection-graft-deprotection route. A simple and convenient procedure for chemo selectively protecting the amino groups of CS was developed to provide N-phthaloyl-chitosan (PHCS) that is indispensable as a soluble N-protected precursor for further controlled modification reaction of CS. The weight percent PHCS-g-PLLA copolymer was determined by the theoretical models based on experimental data. Low error regression in new models was monitored.

کلمات کلیدی:

Chitosan, PHCS-g-PLLA, CS-g-PLLA, graft copolymer

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