عنوان مقاله:

An investigation on burn wound healing with electrospun Chitosan nanofiber mats containing Silver sulfadiazine

محل انتشار:

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

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خلاصه مقاله:

To accelerate the healing process of wounds, the wounded area needs to be protected from environmental factors. The goal of wound dressing is to produce an ideal structure withhigh porosity but at the same time be a good barrier. Chitosan is a biopolymer that has been well known as being able toaccelerate the healing of wound in human [1]. It has also been documented that chitosan confers considerable antibacterialactivity against a broad spectrum of bacteria [2].Electrospinning technique is a simple and effective method to obtain ultra-fine fibers with diameters ranging frommicrometers to a few nanometers. The electrospun fibrous mats present a range of useful characteristics such as highspecificsurface area, high aspect ratio and high porosity, with small pore size [3]. In the present study we successfully prepared and analyzedchitosan/poly ethylene oxide (PEO) nanofiber containingsilver sulfadiazine (AgSD) via electrospinning.

کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا: