

عنوان مقاله:

Antibacterial Chitosan/Gelatin Porous Hydrogels as Wound Dressing

محل انتشار:

سومین کنگره ملی شیمی و نانوشیمی از پژوهش تا فناوری (سال: 1399)

تعداد صفحات اصل مقاله: 4

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خلاصه مقاله:

Burn wounds environment favors the growth of microorganisms cause delay in wound healing. In the current study, chitosan/gelatin/vancomycin porous scaffolds were fabricated and characterized. Vancomycin released from the scaffolds, inhibited the growth of *Staphylococcus aureus*, as evident from antibacterial test. Swelling of the samples were improved in gelatin containing samples and reached to 2950%, whereas that of pure chitosan scaffold was 1817% after 90 minutes incubation in water. Histograms showed more homogenous structure and narrow distribution of pores for C80G20 among the samples. According to the results, the scaffolds have potential to be used as wound dressing materials or skin tissue engineering scaffold

کلمات کلیدی:

gelatin, hydrogels, vancomycin release, antibacterial

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1044078>

