

عنوان مقاله:

تهیه اسفنج ژلاتینی تقویت شده با الیاف آلیاژی پلی پروپیلن/پلی اتیلن ترفتالات برای استفاده در مهندسی بافت

محل انتشار:

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خلاصه مقاله:

this study describes an investigation of gelatin sponge mechanically reinforced through the incorporation of Polypropylene/ Polyethylene Terephthalate (PP/PET) alloy fibers. The gelatin solution of 5%(w/v) was used incorporating various amounts of PP/PET fiber (5, 10, 15, 25 and 50 mg), were fabricated by the conventional freeze-drying method, followed by dehydrothermal cross-linking treatment to obtain gelatin sponges incorporating PP/PET fiber to various extents. By scanning electron microscopy observation, the gelatin sponges exhibited isotropic and interconnected pore structures that are necessary for cell culture. As expected, PP/PET fiber incorporation enabled the gelatin sponges to significantly enhance their compression strength

کلمات کلیدی:

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