Electrically Conductive Chitosan Carbon Sca Olds For

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Conductive Polymers Electrically Conductive Chitosan Carbon Sca
Chitosan/carbon sca?olds had. an elastic modulus of 28.1 ± 3.3 KPa, similar to that measured. for rat myocardium, and excellent electrical properties, with a conductivity of 0.25 ± 0.09 S/m. The sca?olds were seeded with. neonatal rat heart cells and cultured for up to 14 days, without electrical stimulation.

Electrically Conductive Chitosan/Carbon Sca olds for ...
The electrical conductivity of chitosan/carbon scaffolds, measured in a dry state as in previous studies, was 9 orders of magnitude above that of chitosan scaffolds. Importantly, the electrical conductivity of chitosan/carbon scaffolds is in the same order of magnitude as the conductivity of ventricular muscle, blood, and skeletal muscle (0.03–0.6 S/m).

Electrically Conductive Chitosan/Carbon Scaffolds for ...

The electrical conductivity of chitosan/carbon scaffolds, measured in a dry state as in previous studies, 100,101 was 9 orders of magnitude above that of chitosan scaffolds. Importantly, the electrical conductivity of chitosan/carbon scaffolds is in the same order of magnitude as the conductivity of ventricular muscle, blood, and skeletal muscle (0.03–0.6 S/m). 43

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Carbon Sca Olds For Chitosan/carbon scaffolds had an elastic modulus of 28.1 ± 3.3

Electrically Conductive Chitosan Carbon Sca Olds For

This study focuses on the fabrication and characterization of chitosan (CS) scaffolds containing PEDOT:PSS, a conductive polymer. The scaffold is primarily designed for cardiac tissue engineering, although it can be used for other applications too. Chitosan scaffolds containing 0.3, 0.6 and 1 wt% of PEDOT:PSS are fabricated through electrospinning.

Conductive nanofibrous Chitosan/PEDOT:PSS tissue ...

In addition, compared to pure chitosan scaffolds, electrical conductivity of CNTs/CHI composites are dramatically improved

up to 8 orders of magnitude. The AC conductivities of CNTs/CHI composites follow the percolation scaling law with percolation threshold p c = 0.19 vol.% and scaling exponent t = 1.35.

Elastic and electrically conductive carbon nanotubes ...

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Electrically Conductive Chitosan Carbon Sca Olds For

Electrically Conductive Chitosan/Carbon Scaffolds for Cardiac Tissue Engineering By Ana M. Martins, George Eng, Sofia G. Caridade, João F. Mano, Rui L. Reis and Gordana Vunjak-Novakovic Cite

Electrically Conductive Chitosan/Carbon Scaffolds for ...

Chitosan/carbon scaffolds had an elastic modulus of 28.1 ± 3.3 KPa, similar to that measured for rat myocardium, and excellent electrical properties, with a conductivity of 0.25 ± 0.09 S/m. The scaffolds were seeded with neonatal rat heart cells and cultured for up to 14 days, without electrical stimulation.

Electrically conductive chitosan/carbon scaffolds for ...

Abstract. Composite films of chitosan and reduced graphene oxide (

RGO) sheets with nacre-like layered structure have been prepared by vacuum filtration of the stable aqueous mixture of both components. The film containing 6 wt% RGO is electrically conductive with a conductivity of 1.2 S m ?1. Furthermore, it is mechanically strong and ductile; its Young's modulus, tensile strength and elongation at break were measured to be 6.3 ± 0.2 GPa, 206 ± 6 MPa and 6.5 ± 0.6%, respectively.

Electrically conductive and mechanically strong biomimetic ...
Chitosan/carbon scaffolds had elastic modulus of 28.1 ± 3.3 KPa, similar to that measured for rat myocardium, and excellent electrical properties, with conductivity of 0.25 ± 0.09 S/m.

Electrically Conductive Chitosan/Carbon Scaffolds for ...

Among the different biopolymers that have been proposed as stabilizing agents for SWNTs, chitosan 41,42 is particularly viable for tissue engineering scaffolds, due to its excellent biocompatibility, biodegradability, and broad availability. 7,9,43,44 Previously, we reported on a suturable, multilayered cardiac patch made from a chitosan and gelatin composite hydrogel supported by a polycaprolactone (PCL) scaffold. 45 The PCL scaffold provides suturability and sufficient tensile strength (>2 ...