

Reference Number: 025418/0068

Title of the Invention

THE METHOD OF COASERVATE PRODUCTION BY THE COASERVATION METHOD AND THE COASERVATES OBTAINED BY THIS PRODUCTION METHOD AND THEIR USE AS TISSUE SCAFFOLDING

Invention

This invention relates to the production of tissue scaffolds with cell encapsulation (macro-encapsulation) capacity for tissue engineering using complex coacervation technique with chitosan (KT) and hyaluronic acid (HA) polymers. The aim of the invention is to have a porous surface that is biodegradable, has biocompatible and elastic properties, consists of completely natural polymers, has no toxic effect since no crosslinkers or organic solvents are used, and will provide an environment suitable for cell survival, proliferation and, if stem cells are used, specialization to the desired cell type. This invention relates to the production of tissue scaffolds with cell encapsulation (macro-encapsulation) capacity for tissue engineering by using complex coacervation technique with chitosan (KT) and hyaluronic acid (HA) polymers. The aim of the invention is to have a porous surface that is biodegradable, has biocompatible and elastic properties, consists of completely natural polymers and has no toxic effect since no crosslinkers or organic solvents are used, and will provide an environment suitable for cell survival, proliferation and, if stem cells are used, customization to the desired cell type is to perform a production that enables the creation of tissue scaffolds.

Advantages

Current Status

TURKEY: Pending

Keywords

Contact:

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YEDİTEPE ÜNİVERSİTESİ



Tissue engineering, Biodegradable and biocompatible polymeric material

TRL: 2

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