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Patent Search

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Abstract:

TITLE: PREPARATION OF A NOVEL 3D BIOPRINTING SCAFFOLD FOR ACCELERATING CUTANEOUS WOUND HEALING APPLICANT: SREE BALAJI MEDICAL COLLEGE AND HOSPITAL
 ABSTRACT The present invention discloses a process of preparation of 3D nanofibers scaffolds (FbN-Arg-PLGA@AgNPs) for use in accelerating cutaneous wound healing and regeneration in wound site as well as exhibiting antibacterial activity against wound pathogen. The process of the present invention comprises of; a. dissolving fibrinogen and formic acid at room temperature under continuous stirring and adding arginine followed by further stirring and adding PLGA, PEG and AgNO₃ followed by stirring to form electrospinning solution; b. loading the electrospinning solution onto a plastic syringe fitted with a needle of an electro spinning apparatus and subjecting the electrospinning solution to obtain random fibres electrospun followed by fixing with the electrospinning solution for 3D nanofibers fabrication using layer by layer and sterilizing with UV light to obtain 3D nanofibers scaffolds(FbN-Arg-PLGA@AgNPs).

Complete Specification

Description:Form 2

THE PATENT ACT, 1970

(39 of 1970)

&

THE PATENT RULES, 2003

COMPLETE SPECIFICATION

(See section 10 and rule 13)

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