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Patent Search

Invention Title	METHOD OF PREPARING HYDROGEL FORMULATION FOR WOUND HEALING
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Abstract:

ABSTRACT METHOD OF PREPARING HYDROGEL FORMULATION FOR WOUND HEALING The present invention envisages a method of preparing hydrogel formulation healing. The formulation comprises of complex of quercetin and fulvic acid with a polysaccharide solution to prepare nanoparticles which are further loaded in poly and xanthan gum-based hydrogel.

Complete Specification

Description:Preamble to the description

THE FOLLOWING SPECIFICATION PARTICULARLY DESCRIBES THE INVENTION AND THE MANNER IN WHICH IT IS TO BE PERFORMED.

FIELD

The present disclosure generally relates to formulation intended for wound healing.

BACKGROUND

The background information herein below relates to the present disclosure but is not necessarily prior art.

Hydrogels are nano-composite formulations of 3-D configured polymeric network having tendency to grab a massive water uptake or biological fluids suggesting it companion for wound healing. Hydrogels have hydrophilic chemical groups like hydroxyl, impart them water absorbing affinity.

Wound sites have high ROS (Reactive oxygen species) besides having positive outcomes against invading bacteria, they also have destructive impact causing tissue fibroblast destruction, making skin lipids less flexible and even neoplastic formation in some cases. High antioxidant activity of Flavonoid drugs could be used to co the above effect thereof as the they have high antioxidant activity and antimicrobial action along with.

The verge of disrupted wound healing also stand the risk of being potently infected by a bacteria called Staphylococcus aureus. Since the diabetic patient have imp: etiology of wound healing due to hyperglycaemia causing disruption of pro-angiogenic signalling, nitric oxide production, leukocyte dysfunction, peripheral neurop: so on

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