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Conception and evaluation of a bio biopolymer cream extracted from a marine biomass Anti-infectious effect and healing of chronic wounds

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Formulation is a technological activity. Its objective is the design and development of artisanal or industrial products. Nowadays, formulation has become one of the most important branches thanks to the development and innovation that is constantly increasing; it consists in mixing different components to arrive at a formula allowing having a stable product. it is non-toxic and homogeneous, it concerns not only the pharmaceutical field but also the cosmetic and other fields. Today, existing and available on the markets of pharmaceutical and Para pharmaceutical products based on synthetic raw materials harmful to human health and also to the environment. On this basis the search for bio products has become a major concern in the field of scientific research. The pharmaceutical formulation generally comprises one or more active compounds, additives (colorants, preservatives, plasticizers, etc.). In this perspective, the objective of this study is to evaluate the biological interest of a new bio formulation based on biopolymer for regeneration in vivo skin tissue after a deep burn. The results of the experiments conducted as part of this work confirm that: -The formulation in cream form tested on animals is well tolerated by the host organism and does not generate a clinically detectable flammable reaction. - The regenerated tissue with biopolymer cream is functional and able to play the role of natural barrier against the external environment. -The mechanical properties of the regenerated tissue after a 10-day treatment with the prepared cream are closer to those of native tissue compared to those of the regenerated tissue after 25 days of treatment in the presence of Tulle Gras.

Biography

Laribi teach at the Faculty of Technology at BLIDA University and she does her research in the same university. Her research is about Biological Engineering and Biotechnology. Her research program is focused on the production, characterization of biomolecules (enzymes and biopolymers) extracted from bacteria and marine biomasses and their application in different domains (environment, agriculture and pharmaceutical) She is currently working on the application of biopolymers in the pharmaceutical and therapeutic field -Preparation of bio formulations in the form of creams, bio gels and dressings to treat infections, inflammation and total healing of deep wounds caused by second- and third-degree burns Hydrogel encapsulation of biomolécules as active ingrédients This work has been the subject of several studies of Magister, PhD, patents of invention and international publications etc

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