

Reference Number: 025418/00104

Title of the Invention

GEL FORMULATION CREATED WITH THE EXTRACT of Okra FRUIT AND THE USE OF THIS GEL FORMULATION AS WOUND HEALING

Invention

This invention relates to the preparation of formulations used for wound healing from aqueous or alcoholic extracts of okra (*Abelmoschus esculentus*) (Okra) fruit. Based on the use of okra fruit grown in our country as a traditional folk medicine in the treatment of abscesses in the skin and subcutaneous tissue, its wound healing properties were investigated. As a result of in vitro and in vivo studies carried out in this context, it was found that the formulation prepared with okra extract from Kilis region was quite effective on wound healing. In histopathological analyzes, it was observed that collagenization and granulation tissue maturation were better in the reference and 5% ethanol extract groups. In addition, within the scope of biocompatibility tests, in vitro EpidermTM and reconstituted skin irritation test (SIT) revealed that this gel formulation is non-irritant.

Advantages

There is no wound healing formulation produced with okra grown in Turkey. Therefore, by using okra grown in our country as a local source, a gel formulation has been developed that is easier to use and less costly than reference ointments in the market. In addition, the gel structure of the developed formulation provides an advantage in terms of ease of use, as it is a factor that increases patient compliance.

Current Status

TURKEY: Pending

Keywords

Wound healing, Okra fruit

Contact:

Yeditepe Üniversitesi Teknoloji Transfer Ofisi (YUTTO)

İnönü Mah. Kayışdağı Cad. 326A 26 Ağustos Yerleşimi Rektörlük Binası Kat:2 Teknoloji Transfer Ofisi 34755 Ataşehir – İSTANBUL

Tel: +90 216 578 00 00 (3980)

e-mail: tto@yeditepe.edu.tr



YEDİTEPE ÜNİVERSİTESİ



YUTTO
YEDİTEPE ÜNİVERSİTESİ
TEKNOLOJİ TRANSFER OFİSİ

TRL: 2

Contact:

Yeditepe Üniversitesi Teknoloji Transfer Ofisi (YUTTO)

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e-mail: tto@yeditepe.edu.tr