

Title (en)

REDUCTION OF REACTIVE OXYGEN SPECIES IN CHRONIC WOUND MANAGEMENT

Title (de)

ABREICHERUNG VON REAKTIONSFÄHIGENSAUERSTOFFSPEZIES BEI DER BEHANDLUNG VON CHRONISCHEN WUNDEN

Title (fr)

REDUCTION D'ESPECES REACTIVES D'OXYGENE DANS LE TRAITEMENT DE PLAIES CHRONIQUES

Publication

EP 1575359 A1 20050921 (EN)

Application

EP 03808544 A 20031223

Priority

- US 0341038 W 20031223
- US 43619702 P 20021223

Abstract (en)

[origin: WO2004057965A1] Reactive oxygen species associated with a wound are modulated through treatment of the wound with a solution of metal ions selected from the group consisting of potassium ions, zinc ions, calcium ions and rubidium ions, at a pH of between about 5 and about 7. Preferably, citric acid is employed to adjust the pH. Application of the extract to a wound exhibiting superoxide anions has been found to be effective in the treatment of these wounds through the reduction of the level of superoxide anions. Moreover, treatment of partial thickness excision wounds as well as contact burn wounds with the present composition has been found to improve epithelialization of these wounds. In addition to the antioxidant activity of the present invention, treatment of the wound employing the present composition produces inhibitory effects on ROS production by human PMNs and on human complement activation, and therefore, is further beneficial in chronic wound management.

IPC 1-7

A01N 39/00; **A01N 59/16**; **A01N 59/10**; **A61K 33/24**; **A61K 33/32**; **A61K 33/14**

IPC 8 full level

A61K 33/14 (2006.01); **A61K 33/24** (2006.01); **A61K 33/32** (2006.01)

CPC (source: EP US)

A61K 33/14 (2013.01 - EP); **A61K 33/30** (2013.01 - EP US); **A61K 33/32** (2013.01 - EP); **A61P 17/02** (2017.12 - EP); **A61P 43/00** (2017.12 - EP)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004057965 A1 20040715; AU 2003303335 A1 20040722; CA 2511440 A1 20040715; CN 1744819 A 20060308; EP 1575359 A1 20050921; EP 1575359 A4 20090805; JP 2006511585 A 20060406

DOCDB simple family (application)

US 0341038 W 20031223; AU 2003303335 A 20031223; CA 2511440 A 20031223; CN 200380109566 A 20031223; EP 03808544 A 20031223; JP 2004563981 A 20031223