

Title (en)
A METHOD FOR THE PRODUCTION OF BACTERIAL CELLULOSE

Title (de)
VERFAHREN ZUR HERSTELLUNG BAKTERIELLER CELLULOSE

Title (fr)
PROCEDE DE PRODUCTION DE CELLULOSE BACTERIENNE

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Application
EP 04748875 A 20040702

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• PL 36106703 A 20030703

Abstract (en)
[origin: WO2005003366A1] The subjects of the present invention are a method for the production of bacterial cellulose, a method of immobilising the bacteria *Bacillus subtilis*, synthesizing a protease, a method for the production of immobilised biocatalysts, an application of bacterial cellulose produced in a stationary culture of an *Acetobacter xylinum* strain as a wound dressing, a method of modifying cellulose membranes in order to produce wound dressings. In general, the present invention relates to the synthesis of cellulose which forms a gelatinous, elastic membrane on the surface of a liquid medium in stationary conditions. The present invention also relates to the application of bacterial cellulose as a carrier for the production of immobilised biocatalysts, as well as a method for the application of bacterial cellulose as a wound dressing in the treatment of extensive 1, 2 and 3 degree burns and surgical incisions, which is used in the form of cellulose membranes of arbitrary size and shape. The subjects of the present invention are used in the production of wound dressings in the form of cellulose membranes of arbitrary size and shape.

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See references of WO 2005003366A1

Citation (examination)
GALAS E. ET AL, ACTA BIOTECHNOLOGICA, vol. 19, 1999, pages 251 - 260

Cited by
CN102146166A; CN102100365A; US10709820B2; EP2371401A2; WO2023089010A1; EP3572043A1; US11298225B2

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