

Title (en)

ZEOLITE MEMBRANE FOR CELLULAR ADHESION, GROWTH AND CULTURES AND PROCESS FOR PREPARATION THEREOF

Title (de)

ZEOLITHMEMBRAN FÜR ZELLADHÄSION, ZELLWACHSTUM UND ZELLKULTUREN SOWIE HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

MEMBRANE DE ZÉOLITE POUR L'ADHÉSION CELLULAIRE, LA CROISSANCE ET DES CULTURES DE CELLULES ET PROCÉDÉ POUR LA PRÉPARATION DE CELLE-CI

Publication

EP 2533882 A1 20121219 (EN)

Application

EP 11706773 A 20110209

Priority

- IT CS20100003 A 20100209
- EP 2011051915 W 20110209

Abstract (en)

[origin: WO2011098497A1] The invention relates to an auto - supported zeolite membrane, its process for preparation and its application in cellular adhesions and cultures. Pore and cavity sizes of this zeolite membrane are in the range between 20 Å and 10 µm. The zeolite membrane preparation consists in pressing a microporous layer of calcined or ozonized or ground or as made pure structure zeolite crystals. To obtain an ideal antimicrobial and antimycotic scaffold the physico-chemical characteristics of the zeolite membrane surface and framework can be modulated. The applicability of this membrane to the cellular adhesion and growth is demonstrated.

IPC 8 full level

B01D 71/02 (2006.01); **B01D 67/00** (2006.01); **C01B 39/02** (2006.01); **C12N 5/00** (2006.01)

CPC (source: EP US)

B01D 67/0041 (2013.01 - EP US); **B01D 67/0088** (2013.01 - EP); **B01D 71/0281** (2022.08 - EP US); **C12N 5/0068** (2013.01 - EP); **B01D 2323/10** (2013.01 - EP); **B01D 2325/48** (2013.01 - EP); **C12N 2533/10** (2013.01 - EP)

Citation (search report)

See references of WO 2011098497A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2011098497 A1 20110818; EP 2533882 A1 20121219; IT CS20100003 A1 20110810

DOCDB simple family (application)

EP 2011051915 W 20110209; EP 11706773 A 20110209; IT CS20100003 A 20100209