

Title (en)

POROUS MEMBRANES HAVING A POLYMERIC COATING AND METHODS FOR THEIR PREPARATION AND USE

Title (de)

PORÖSE MEMBRANEN MIT EINER POLYMERBESCHICHTUNG SOWIE VERFAHREN ZU IHRER HERSTELLUNG UND VERWENDUNG

Title (fr)

MEMBRANES POREUSES À REVÊTEMENT POLYMÈRE ET LEURS PROCÉDÉS DE PRÉPARATION ET D'UTILISATION

Publication

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Application

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- US 2012071693 W 20121227

Abstract (en)

[origin: WO2013101855A1] A modified porous membrane comprising a polymer coating grafted to a porous membrane is described. The polymer coatings grafted to the porous membranes generally comprise a polymer of variable length of an electron beam (e-beam) reactive moiety, designated "poly-(A)x," a linkage group that forms a bond between the between the poly-(A)x, and a functional B group available to react with a chemical group on a biomolecule, wherein the polymer coating on the porous membrane facilitates the immobilization of a biomolecule, such as DNA, RNA, a protein, and an antibody, on the porous membrane. The compositions find use in immunoassays, in vitro diagnostic tests, point of care tests, techniques for the isolation of a biomolecule from a biological sample, and other methods that require the immobilization of a biomolecule on a porous membrane. Methods of making these modified porous membranes are also disclosed.

IPC 8 full level

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Citation (search report)

- [X] EP 1514597 A1 20050316 - JAPAN ENVIRO CHEMICALS LTD [JP], et al
- [X] US 2007154703 A1 20070705 - WALLER CLINTON P [US], et al
- [X] WO 9200805 A1 19920123 - SARTORIUS GMBH [DE]
- [X] US 2006040280 A1 20060223 - LEE WILLIAM [US], et al
- [X] WO 2010142363 A1 20101216 - SARTORIUS STEDIM BIOTECH GMBH [DE], et al
- [A] US 6306665 B1 20011023 - BUCK ROBERT LEE [US], et al
- See also references of WO 2013101855A1

Cited by

EP2797679A4

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