

Title (en)

METHODS OF CONCENTRATING MICROORGANISMS USING AFFINITY SEPARATION

Title (de)

VERFAHREN ZUR KONZENTRATION VON MIKROORGANISMEN MITTELS AFFINITÄTSTRENNUNG

Title (fr)

PROCEDE DE CONCENTRATION DE MICRO-ORGANISMES AU MOYEN D'UNE SEPARATION PAR AFFINITE

Publication

**EP 1123501 A4 20050413 (EN)**

Application

**EP 99943648 A 19990804**

Priority

- US 9917589 W 19990804
- US 17504098 A 19981019
- US 30145199 A 19990429

Abstract (en)

[origin: WO0023792A1] A method for concentrating a particular microorganism or microorganisms of interest in a sample is provided and effected by contacting the sample with a matrix to which is bound an affinity receptor specific for the particular microorganism or microorganisms, the affinity receptor and the matrix being selected so as to allow capture of the microorganism or microorganisms to the matrix via the affinity receptor when present in the sample at a concentration of ultra low levels, thereby obviating the need for a prolonged pre-enrichment step, and in some cases obviating altogether the need for a pre-enrichment step, of the microorganism or microorganisms in the sample.

IPC 1-7

**C12N 1/02**; G01N 33/569; C12Q 1/68; B01D 25/00; C12M 1/12

IPC 8 full level

**C12M 1/12** (2006.01); **C12N 1/02** (2006.01); **C12Q 1/24** (2006.01); **G01N 33/569** (2006.01)

CPC (source: EP)

**C12M 47/02** (2013.01); **C12N 1/02** (2013.01); **C12Q 1/24** (2013.01); **G01N 33/569** (2013.01)

Citation (search report)

- [X] FRANCISCO J A ET AL: "SPECIFIC ADHESION AND HYDROLYSIS OF CELLULOSE BY INTACT ESCHERICHIA COLI EXPRESSING SURFACE ANCHORED CELLULASE OR CELLULOSE BINDING DOMAINS", BIO/TECHNOLOGY, NATURE PUBLISHING, NEW YORK, NY, US, vol. 11, April 1993 (1993-04-01), pages 491 - 496, XP002947290, ISSN: 0733-222X
- [X] WIERZBA ANDREW ET AL: "Production and Properties of a Bifunctional Fusion Protein that Mediates Attachment of Vero Cells to Cellulosic Matrices", BIOTECHNOLOGY AND BIOENGINEERING, vol. 47, no. 2, 1995, pages 147 - 154, XP002307744, ISSN: 0006-3592
- [A] TOMME P ET AL: "Characterization and affinity applications of cellulose-binding domains", JOURNAL OF CHROMATOGRAPHY B: BIOMEDICAL SCIENCES & APPLICATIONS, ELSEVIER SCIENCE PUBLISHERS, NL, vol. 715, no. 1, 11 September 1998 (1998-09-11), pages 283 - 296, XP004147002, ISSN: 1570-0232
- [A] LINDER M ET AL: "The roles and function of cellulose-binding domains", JOURNAL OF BIOTECHNOLOGY, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 57, no. 1-3, 16 September 1997 (1997-09-16), pages 15 - 28, XP004097727, ISSN: 0168-1656
- See references of WO 0023792A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**WO 0023792 A1 20000427**; AU 5670299 A 20000508; CA 2347004 A1 20000427; EP 1123501 A1 20010816; EP 1123501 A4 20050413

DOCDB simple family (application)

**US 9917589 W 19990804**; AU 5670299 A 19990804; CA 2347004 A 19990804; EP 99943648 A 19990804