

Title (en)

METHOD OF DETECTING MACROMOLECULAR BIOPOLYMERS BY MEANS OF AN ELECTRODE ARRANGEMENT

Title (de)

VERFAHREN ZUM ERFASSEN VON MAKROMOLEKULAREN BIOPOLYMEREN MITTELS EINER ELEKTRODENANORDNUNG

Title (fr)

PROCEDE POUR SAISIR DES BIOPOLYMERES MACROMOLECULAIRES AU MOYEN D'UN DISPOSITIF D'ELECTRODES

Publication

**EP 1377685 A2 20040107 (DE)**

Application

**EP 02727216 A 20020312**

Priority

- DE 0200868 W 20020312
- DE 10113550 A 20010320

Abstract (en)

[origin: WO02074985A2] The invention relates to a method of detecting macromolecular biopolymers by means of an electrode arrangement that comprises a first and a second electrode. The inventive method is characterized by carrying out a first electrical measurement on the electrodes. In a further step, a solution to be examined, which may contain the macromolecular biopolymers to be detected, is contacted with the electrode arrangement. In another step, the macromolecular biopolymers to be detected that are contained in the solution to be examined are bound to the scavenger molecules on the first and on the second electrode and the electrode arrangement is contacted with a reagent to increase conductivity of the macromolecular biopolymers, said reagent binding to the macromolecular biopolymers and bestowing them with electroconductivity. A second electrical measurement is carried out on the electrodes and the macromolecular biopolymers are detected on the basis of the comparison of the results of the two electrical measurements on the electrodes.

IPC 1-7

**C12Q 1/68**; G01N 33/543; G01N 33/68; C12Q 1/00

IPC 8 full level

**G01N 33/53** (2006.01); **C12Q 1/42** (2006.01); **C12Q 1/44** (2006.01); **C12Q 1/48** (2006.01); **C12Q 1/68** (2006.01); **C12Q 1/6825** (2018.01); **C12Q 1/6837** (2018.01); **G01N 27/02** (2006.01); **G01N 33/543** (2006.01); **G01N 33/566** (2006.01)

CPC (source: EP US)

**C12Q 1/6825** (2013.01 - EP US); **C12Q 1/6837** (2013.01 - EP US); **G01N 33/5438** (2013.01 - EP US)

C-Set (source: EP US)

1. **C12Q 1/6825** + **C12Q 2565/543**
2. **C12Q 1/6837** + **C12Q 2565/607** + **C12Q 2565/543**

Citation (search report)

See references of WO 02074985A2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**WO 02074985 A2 20020926**; **WO 02074985 A3 20030508**; DE 10113550 A1 20021002; EP 1377685 A2 20040107; JP 2004524534 A 20040812; US 2004096866 A1 20040520

DOCDB simple family (application)

**DE 0200868 W 20020312**; DE 10113550 A 20010320; EP 02727216 A 20020312; JP 2002574373 A 20020312; US 47216803 A 20031124