

Title (en)

METHODS AND COMPOSITIONS FOR DETECTION OR QUANTIFICATION OF NUCLEIC ACID SPECIES

Title (de)

ERFAHREN UND ZUSAMMENSETZUNGEN ZUR DETEKTION ODER QUANTIFIZIERUNG VON NUKLEINSÄURESPEZIES

Title (fr)

PROCEDES ET COMPOSITIONS DE DETECTION OU DE QUANTIFICATION D'ESPECES D'ACIDES NUCLEIQUES

Publication

EP 1012335 A4 20040609 (EN)

Application

EP 98940915 A 19980814

Priority

- US 9816966 W 19980814
- US 91288597 A 19970815
- US 94777997 A 19971009
- US 95936597 A 19971028

Abstract (en)

[origin: WO9909217A1] The present invention provides a method for detecting a target nucleic acid species using an array of probes affixed to a substrate and a plurality of labeled probes. The invention also relates to oligonucleotide probes attached to discrete particles wherein the particles can be grouped into a plurality of sets based on a physical property. A different probe is attached to the discrete particles of each set, and the identity of the probe is determined by identifying the discrete particles from their physical property. The invention further relates to methods using agents which destabilize the binding of complementary polynucleotide strands (decrease the binding energy) or increase stability of binding between complementary polynucleotide strands (increase the binding energy). The figure is an illustration of an apparatus for mass producing probe arrays.

IPC 1-7

C12P 19/34; **C12Q 1/68**

IPC 8 full level

C12N 15/09 (2006.01); **C12P 19/34** (2006.01); **C12Q 1/68** (2006.01); **G01N 33/53** (2006.01); **G01N 37/00** (2006.01); **C40B 40/06** (2006.01); **C40B 60/14** (2006.01)

CPC (source: EP)

C12Q 1/6837 (2013.01); **C12Q 1/6874** (2013.01); **B01J 2219/00317** (2013.01); **B01J 2219/00511** (2013.01); **B01J 2219/00608** (2013.01); **B01J 2219/0061** (2013.01); **B01J 2219/00612** (2013.01); **B01J 2219/00619** (2013.01); **B01J 2219/00621** (2013.01); **B01J 2219/00626** (2013.01); **B01J 2219/0063** (2013.01); **B01J 2219/00637** (2013.01); **B01J 2219/00641** (2013.01); **B01J 2219/00648** (2013.01); **B01J 2219/00659** (2013.01); **B01J 2219/00722** (2013.01); **C40B 40/06** (2013.01); **C40B 60/14** (2013.01)

Citation (search report)

- [X] WO 9509248 A1 19950406 - ARCH DEV CORP [US], et al
- [X] WO 9427719 A1 19941208 - BRENNAN THOMAS M [US]
- [X] US 5503980 A 19960402 - CANTOR CHARLES R [US]
- [XY] WO 9527078 A1 19951012 - CIBA CORNING DIAGNOSTICS CORP [US], et al
- [XY] WO 9210588 A1 19920625 - AFFYMAX TECH NV [NL]
- [X] US 5002867 A 19910326 - MACEVICZ STEPHEN C [US]
- See references of WO 9909217A1

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 9909217 A1 19990225; AU 8908198 A 19990308; CA 2300940 A1 19990225; CN 1273609 A 20001115; EP 1012335 A1 20000628; EP 1012335 A4 20040609; JP 2001514906 A 20010918

DOCDB simple family (application)

US 9816966 W 19980814; AU 8908198 A 19980814; CA 2300940 A 19980814; CN 98808165 A 19980814; EP 98940915 A 19980814; JP 2000509878 A 19980814