Title (en)

DRY REAGENT STRIP AND NUCLEIC ACID DETECTION

Title (de)

TROCKEN-TESTSTREIFEN UN DETEKTION VON NUKLEINSÄURE

Title (fr)

BANDELETTE D'ESSAI A REACTIF SEC ET DETECTION D'ACIDE NUCLEIQUE

Publication

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Application

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Priority

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- GR 2002100485 A 20021107

Abstract (en)

[origin: WO2004042084A1] This invention provides a dry reagent test strip having oligonucleotide conjugated gold nanoparticles as an integral part and a method for the preparation of said test strip for the detection and/or determination of a nucleic acid. Oligonucletide conjugated gold nanoparticles are stabilized in dry form and retain all their properties after rehydration (mobility, hybridization capacity and colloidal state). The presence of a nucleic acid in the sample is detected by the formation of two red bands on the test and control zones, as a result of aggregation of gold nanoparticles at the test and control zone by the interaction with binding protein streptavidin and the complementary oligonucleotides, respectively. This invention represents an exceptionally sensitive and fast nucleic acid detection system, easy to use, with no need for special equipment. It has been designed so that to be effective in the detection of any kind of a nucleic acid, the specificity being determined solely by the sequence of the nucleotide- probe-1.

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C12Q 1/68

IPC 8 full level

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C-Set (source: EP)

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Citation (search report)

See references of WO 2004042084A1

Citation (third parties)

Third party :

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