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TITLE

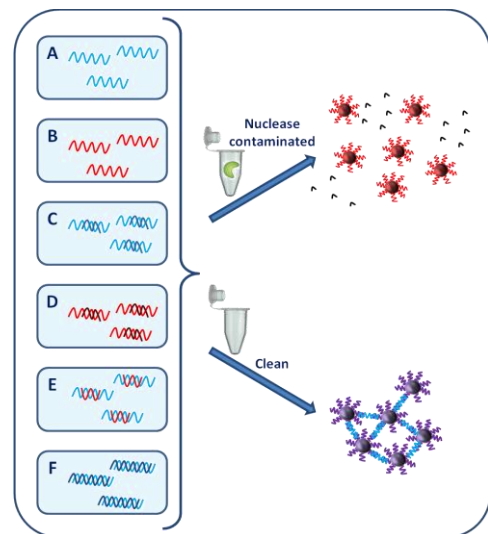
Method of detection of nucleases

INVENTORS

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DESCRIPTION

The invention relates to a system for the detection of nucleases which is based on gold nanoparticles (AuNP) functionalized with DNA /RNA oligonucleotides and a solution of lyophilized DNA/RNA oligonucleotides (linkers) and the respective method of detection. The method here proposed consists of two simple steps: first the adding of the sample solution to a solution containing the DNA/RNA linkers and finally the adding AuNPs functionalized with oligonucleotides 1 and 2, which are each complementary to half of the sequence of the linker to this solution. Given the low cost of the assay the invention can find application in low-cost instrument-free sensors for rapid quality control in scientific and clinical laboratories performing molecular biology experiments.



APPLICATIONS

Sensors, molecular biology

KEYWORDS

Gold nanoparticles, low-cost, sensors, biology, instrument-free

BIBLIOGRAPHIC DATA

Method of detection of nucleases

Application Number IT102014902316743

Priority Date 15/12/2014

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