

Title (en)

APPARATUS AND METHOD FOR PERFORMING SEQUENCING OF NUCLEIC ACID POLYMERS

Title (de)

VORRICHTUNG UND VERFAHREN ZUR SEQUENZIERUNG VON NUKLEINSÄUREN

Title (fr)

APPAREIL ET PROCEDE POUR LA MISE EN OEUVRE D'UN SEQUEN AGE DE POLYMERES NUCLEOTIDIQUES

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Application

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Abstract (en)

[origin: WO9808978A1] An apparatus for processing samples containing DNA to produce a sequencing fragment mixture comprises a sample processing element comprising: a thermocycling region having one or more chambers for receiving a DNA sequencing reaction mixture and forming sequencing fragments therefrom; a separation region comprising a separation matrix for separating the sequencing fragments formed in the thermocycling regions; a detection region for detection of the separated sequencing fragments; and means for regulating the temperature in the thermocycling region of the sample processing element to provide a plurality of thermal cycles, each cycle including at least a denaturation phase and an extension phase. The apparatus for processing sample can be placed in a holder which is associated with means for applying an electric field to the separation region of a sample processing apparatus placed within the holder to cause polynucleotide sequencing fragments to migrate through the separation region from the thermocycling region to the detection region; and means for detecting polynucleotide fragments within the detection region of the sample processing apparatus placed within the holder.

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