Title (en)

SEPARATION OF NUCLEIC ACIDS BY CAPILLARY ELECTROPHORESIS IN THERMAL GRADIENTS IN VISCOUS POLYMER SOLUTIONS

Title (de)

TRENNUNG VON NUKLEINSÄUREN DURCH KAPILLARELEKTROFORESE MIT THERMISCHEN GRADIENTEN IN VISKOSEN POLYMERLÖSUNGEN

Title (fr)

SEPARATION D'ACIDES NUCLEIQUES DANS DES SOLUTIONS POLYMERES VISQUEUSES AU MOYEN D'UNE ELECTROPHORESE CAPILLAIRE A GRADIENTS THERMIQUES

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Application

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Abstract (en)

[origin: WO9608715A1] The present invention refers to the use of temporal thermal gradients for the separation of DNA fragments, amplified by PCR, both normal and containing point mutations, by capillary zone electrophoresis in presence of viscous polymer solutions. In this system the temperature control in the capillary is obtained via dedicated software and the fragments are revealed either by their natural UV absorbance at 254 nm or by laser induced fluorescence. It is also possible to operate with viscous solutions of polyacrylamides, in particular polyacrylamides containing N-substituted monomers, such as N-methylacrylamide and N-acryloyl amino ethoxy ethanol. Methods are described for producing short-chain polyacrylamides of low viscosity, which can be replaced after each run.

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