

Title (en)

METHODS AND COMPOSITIONS RELATING TO ELECTRICAL DETECTION OF NUCLEIC ACID REACTIONS

Title (de)

METHODE UND ZUSAMMENSETZUNGEN FÜR DEN ELEKTRISCHEN NACHWEIS VON NUKLEINESÄURE REAKTIONEN

Title (fr)

PROCEDES ET COMPOSITIONS SE RAPPORTANT A LA DETECTION ELECTRIQUE DES REACTIONS D'ACIDES NUCLEIQUES

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Application

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Abstract (en)

[origin: WO0142508A2] This invention relates to the detection of molecular interactions between biological molecules. Specifically, the invention relates to electrical detection of interactions such as hybridization between nucleic acids or peptide antigen-antibody interactions using arrays of peptides or oligonucleotides. In particular, the invention relates to an apparatus and methods for detecting nucleic acid hybridization or peptide binding using electronic methods including AC impedance. In some embodiments, no electrochemical or other label moieties are used. In others, electrochemically active labels are used to detect reactions on hydrogel arrays, including genotyping reactions such as the single base extension reaction.

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