

Title (en)
DENATURING MULTI ION POLYNUCLEOTIDE CHROMATOGRAPHY FOR DETECTING MUTATIONS

Title (de)
DENATURIERENDE MULTIIONEN-POLYNUKLEOTIDCHROMATOGRAPHIE ZUR ERKENNUNG VON MUTATIONEN

Title (fr)
CHROMATOGRAPHIE PAR DENATURATION D'IONS APPARIES DE POLYNUCLEOTIDE PERMETTANT DE DETECTER DES MUTATIONS

Publication
EP 1002137 A1 20000524 (EN)

Application
EP 98939218 A 19980805

Priority

- US 9816260 W 19980805
- US 5478897 P 19970805
- US 5601297 P 19970818
- US 5650097 P 19970820
- US 6144597 P 19971009
- US 6269097 P 19971022
- US 6726997 P 19971203
- US 7057298 P 19980106
- US 7058598 P 19980106
- US 9384498 P 19980722
- US 12910598 A 19980804

Abstract (en)
[origin: WO9907899A1] The present invention is directed to improved methods for detection of mutations in DNA using Denaturing Matched Ion Polynucleotide Chromatography (DMIPC). The invention includes the following aspects: analysis of PCR amplification products to identify factors that affect PCR replication fidelity; design of PCR primers; selection of an optimal temperature for performing DMIPC; selection of the mobile phase composition for gradient elution; methods for column preparation and maintenance; and methods for preparing polynucleotide samples prior to chromatographic analysis.

IPC 1-7
C12Q 1/70; **C12Q 1/68**; **C12P 19/34**; **C12M 1/40**; **C07H 21/02**; **C07H 21/00**

IPC 8 full level
C07H 1/06 (2006.01); **C07H 21/04** (2006.01); **C12M 1/36** (2006.01); **C12N 15/00** (2006.01); **C12N 15/01** (2006.01); **C12N 15/09** (2006.01); **C12N 15/10** (2006.01); **C12P 19/34** (2006.01); **C12Q 1/68** (2006.01); **C12Q 1/70** (2006.01); **G01N 30/88** (2006.01)

CPC (source: EP)
C12N 15/101 (2013.01); **C12Q 1/6827** (2013.01); **C12Q 1/6834** (2013.01)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9907899 A1 19990218; AU 750394 B2 20020718; AU 8769398 A 19990301; CA 2298019 A1 19990218; EP 1002137 A1 20000524; EP 1002137 A4 20030102; JP 2001512702 A 20010828

DOCDB simple family (application)
US 9816260 W 19980805; AU 8769398 A 19980805; CA 2298019 A 19980805; EP 98939218 A 19980805; JP 2000506381 A 19980805