

Title (en)

METHOD FOR DETECTING MUTAGENIC SUBSTANCES

Title (de)

VERFAHREN ZUR DETEKTION VON MUTAGENEN SUBSTANZEN

Title (fr)

METHODE DE DETECTION DE SUBSTANCES MUTAGENES

Publication

EP 1402057 A2 20040331 (DE)

Application

EP 02735423 A 20020625

Priority

- DE 10132280 A 20010704
- EP 0206990 W 20020625

Abstract (en)

[origin: WO03004697A2] The invention relates to a method and means for the rapid identification of mutations. The test strains used in the invention contain a reporter system and a selection marker. An antibiotic resistance protein, which after mutation allows the selective growth of the revertant and the targeted induction of the inducible reporter system of the developing revertants acts as the selection marker. Proteins that are capable of directly or indirectly triggering a measuring signal are used as the reporters. The mutations are identified by means of the reporter signal of the developing revertants, in such a way that the evaluation can take place after only a few hours.

IPC 1-7

C12Q 1/02

IPC 8 full level

C12N 1/21 (2006.01); **C12Q 1/02** (2006.01); **C12Q 1/68** (2006.01); **C12Q 1/6883** (2018.01); **C12Q 1/689** (2018.01); **G01N 33/53** (2006.01); **G01N 33/566** (2006.01)

CPC (source: EP US)

C12Q 1/6883 (2013.01 - EP US); **C12Q 1/689** (2013.01 - EP US); **C12Q 2600/142** (2013.01 - EP US)

Citation (search report)

See references of WO 03004697A2

Citation (examination)

- CÔTÉ ET AL: "A miniaturized Ames mutagenicity assay employing bioluminescent strains of Salmonella typhimurium", MUTATION RESEARCH, vol. 345, December 1995 (1995-12-01), pages 137 - 146
- HOUR ET AL: "Comparative investigation on the mutagenicities of organophosphate, phtalimide, pyethroid and carbamate insecticides by the Ames and lactam tests", MUTAGENESIS, vol. 13, no. 2, March 1998 (1998-03-01), pages 157 - 166

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 03004697 A2 20030116; **WO 03004697 A3 20040122**; AU 2002310769 A1 20030121; DE 10132280 A1 20030123; EP 1402057 A2 20040331; JP 2004533260 A 20041104; US 2005070006 A1 20050331

DOCDB simple family (application)

EP 0206990 W 20020625; AU 2002310769 A 20020625; DE 10132280 A 20010704; EP 02735423 A 20020625; JP 2003510455 A 20020625; US 48279004 A 20040102