

Title (en)

DETECTION OF MICROORGANISMS USING GAS SENSORS.

Title (de)

NACHWEIS VON MIKROORGANISMEN UNTER VERWENDUNG VON GAS-SENSOREN.

Title (fr)

DETECTION DE MICRO-ORGANISMES A L'AIDE DE CAPTEURS DE GAZ.

Publication

EP 0656066 A1 19950607 (EN)

Application

EP 93919459 A 19930820

Priority

- GB 9301778 W 19930820
- GB 9217843 A 19920821
- GB 9219150 A 19920910

Abstract (en)

[origin: WO9404705A1] A method is provided for assessing the contamination status of materials with respect to possible presence of microorganisms, particularly pathogenic microorganisms, by measuring the production of a specific gas or vapour evolved by a sample of the material when it is incubated with a bacterial enzyme substrate. More particularly the present invention relates to the selective detection of (Escherichia coli) organisms in the material sample and relating the presence and/or number of these to the presence and/or number of pathogenic organisms. The method is particularly applicable to testing foodstuffs for the likely presence of pathogens. Most preferred substrates comprise o-nitrophenyl-(beta)-D-glucuronide and methylsalicyl-(beta)-D-glucuronide. Test kits for carrying out said method are also provided.

IPC 1-7

C12Q 1/34; **C12Q 1/06**; **G01N 33/48**; **C07H 15/04**

IPC 8 full level

C07H 15/203 (2006.01); **C12Q 1/04** (2006.01); **C12Q 1/10** (2006.01); **C12Q 1/34** (2006.01); **G01N 33/00** (2006.01); **G01N 33/02** (2006.01)

CPC (source: EP)

C07H 15/203 (2013.01); **C12Q 1/04** (2013.01); **C12Q 1/10** (2013.01); **C12Q 1/34** (2013.01); **C12Q 2304/40** (2013.01); **C12Q 2334/00** (2013.01); **C12Q 2334/10** (2013.01); **G01N 2333/245** (2013.01)

Citation (search report)

See references of WO 9404705A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI NL PT SE

DOCDB simple family (publication)

WO 9404705 A1 19940303; AU 4967493 A 19940315; EP 0656066 A1 19950607

DOCDB simple family (application)

GB 9301778 W 19930820; AU 4967493 A 19930820; EP 93919459 A 19930820