Title (en)

$i(VIBRIO CHOLERAE) 01 (CVD111) AND NON-01 (CVD112 AND CVD112RM) SEROGROUP VACCINE STRAINS AND METHODS OF MAKING SAME

Title (de)

IMPFSTÄMME DER SEROGRUPPE 01 (CVD111) UND NICHT-01 (CVD112 UND CVD112RM) VON -i(VIBRIO CHOLERAE) UND METHODEN IHRER HERSTELLUNG

Title (fr)

SOUCHES DE VACCINS DES SEROGROUPES 01 (CVD111) ET NON-01 (CVD112 ET CVD112RM) DU $i(VIBRIO CHOLERAE) ET PROCEDES DE FABRICATION DESDITES SOUCHES

Publication

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Application

EP 94930665 A 19941007

Priority

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Abstract (en)

[origin: WO9510300A1] Avirulent Vibrio cholerae strains of 01 (CVD111) and non-01 (CVD112 and CVD112RM) serogroups having the DNA of the cholera toxin core and the RS1 sequences of the cholera toxin locus deleted, and further having a DNA encoding a resistance to mercury, and a DNA encoding the cholera toxin B subunit, or a part thereof sufficient to confer immunogenicity, re-inserted in the chromosome. Methods of making the avirulent V. cholerae 01 and non-01 strains of the invention, and cholera vaccines using these strains.

IPC 1-7 (main, further and additional classification)

A61K 39/106; C12N 1/21; C12N 15/63; C12N 15/65; C12N 15/74; C12R 1/63

IPC 8 full level (invention and additional information)

C12N 15/09 (2006.01); **A61K 39/106** (2006.01); **A61P 31/04** (2006.01); **C07K 14/28** (2006.01); **C12N 1/21** (2006.01); **C12N 15/63** (2006.01); **C12P 21/02** (2006.01); C12R 1/63 (2006.01)

CPC (invention and additional information)

A61K 39/107 (2013.01); **C07K 14/28** (2013.01); A61K 2039/522 (2013.01); Y02A 50/472 (2018.01)

Citation (search report)

- [PX] WO 9401533 A1 19940120 - HARVARD COLLEGE [US], et al
- [X] WO 9118979 A1 19911212 - UNIV MARYLAND [US]
- [A] US 5135862 A 19920804 - KAPER JAMES B [US], et al

- [A] LEVINE M M ET AL: "RECOMBINANT LIVE CHOLERA VACCINES", VIBRIO CHOLERAE AND CHOLERA: MOLECULAR TO GLOBAL PERSPECTIVES,US,AMERICAN SOCIETY FOR MICROBIOLOGY,, PAGE(S) 395-413, XP000886576
- [A] CHOLERA WORKING GROUP: "Large epidemic of cholera-like disease in Bangladesh caused by vibrio 0139 synonym Bengal", THE LANCET, vol. 342, 14 August 1993 (1993-08-14), pages 387 - 390, XP000973630
- [A] PEARSON ET AL: "CTX genetic element encodes a site-specific recomnation system and an intestinal colonization factor", PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA,US,NATIONAL ACADEMY OF SCIENCE. WASHINGTON, vol. 90, 1 April 1993 (1993-04-01), pages 3750 - 3754, XP002085116, ISSN: 0027-8424
- [T] TACKET ET AL: "Initial Clinical Studies of CVD 112 Vibrio Cholerae O139 Live Oral Vaccine: Safety and Efficacy against Experimental Challenge", THE JOURNAL OF INFECTIOUS DISEASES, vol. 172, 1995, pages 883 - 886, XP000973598
- See also references of WO 9510300A1

Designated contracting state (EPC)

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

DOCDB simple family

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