

Title (en)

FLAGELLAR GENETIC SEQUENCES OF BRUCELLA BEING OF THERAPEUTIC AND DIAGNOSTIC USE

Title (de)

GENETISCH MODIFIZIERTE BRUCELLA ZELLEN UND PHARMAZEUTISCHE ZUSAMMENSETZUNGEN DIESE ZELLEN BEINHALTEND

Title (fr)

CELLULES DE BRUCELLA GENETIQUEMENT MODIFIEES ET COMPOSITION PHARMACEUTIQUE LES COMPRENANT

Publication

EP 1664302 A1 20060607 (FR)

Application

EP 04737682 A 20040705

Priority

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Abstract (en)

[origin: EP1493813A1] Nucleotide sequences (I) that encode a flagellar protein of Brucella, are new. Independent claims are also included for: (1) flagellar polypeptides (II) encoded by (I); (2) vector that contains (I) or (II); (3) cell transfected by, or containing, the vector of (2); (4) inhibitor (III) directed against (I) or (II); (5) Brucella cell (A) in which one or more of 50 sequences, reproduced, has/have been modified or deleted such that virulence is lost; and (6) pharmaceutical composition that contains (I), (II), (III), the vector of (2) or the cells of (3). ACTIVITY : Antibacterial. Female mice were inoculated intraperitoneally with 50000 colony-forming units (cfu) of a mutant starin of B. melitensis 16M that carried two incomplete copies of the flgI gene, encoding a homolog of the monomer of the P ring of the flagellum. Eight weeks later, the animals were challenged with 104> cfu of wild-type 16M and after a further 4 weeks the spleens were removed and analyzed. No bacteria, of either the vaccinating or challenge strains, could be detected; contrast a content of 0.1 million cfu of the challenge strain in unvaccinated controls. MECHANISM OF ACTION : Vaccine; Gene Therapy.

IPC 1-7

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