

Title (en)

METHOD FOR PRODUCING VITAMIN B12

Title (de)

VERFAHREN ZUR HERSTELLUNG VON VITAMIN B12

Title (fr)

PROCEDE DE PRODUCTION DE VITAMINE B12

Publication

EP 1432809 A2 20040630 (DE)

Application

EP 02796246 A 20020820

Priority

- DE 10141131 A 20010822
- DE 10150323 A 20011011
- EP 0209271 W 20020820

Abstract (en)

[origin: WO03018825A2] The invention relates to a method for producing vitamin B12 using Bacillus megaterium.

IPC 1-7

C12P 19/42; **C12N 5/10**; **C12N 9/10**

IPC 8 full level

C12N 1/21 (2006.01); **C12N 9/10** (2006.01); **C12P 19/42** (2006.01); **C12R 1/11** (2006.01)

CPC (source: EP US)

C12N 9/1007 (2013.01 - EP US); **C12P 19/42** (2013.01 - EP US)

Citation (search report)

See references of WO 03018825A2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 03018825 A2 20030306; **WO 03018825 A3 20040129**; CA 2457662 A1 20030306; CN 1545556 A 20041110; EP 1432809 A2 20040630; JP 2005500851 A 20050113; US 2004241809 A1 20041202

DOCDB simple family (application)

EP 0209271 W 20020820; CA 2457662 A 20020820; CN 02816355 A 20020820; EP 02796246 A 20020820; JP 2003523672 A 20020820; US 48708804 A 20040219