

Title (en)

FERMENTATION PROCESS FOR THE PREPARATION OF L-AMINO ACIDS USING CORYNEFORM BACTERIA

Title (de)

FERMENTATIONSVERFAHREN ZUR HERSTELLUNG VON L-AMINOSÄUREN MIT CORYNEFORMEN BAKTERIEN

Title (fr)

PROCESSUS DE FERMENTATION POUR LA PREPARATION D'ACIDES AMINES L A L'AIDE DE BACTERIES CORYNEFORMES

Publication

EP 1456392 A2 20040915 (EN)

Application

EP 02805292 A 20021126

Priority

- DE 10163167 A 20011221
- EP 0213287 W 20021126

Abstract (en)

[origin: WO03054207A2] The invention relates to a process for the preparation of L-amino acids in which the following steps are carried out: a) fermentation of coryneform bacteria producing the desired L-amino acid, in which at least the gene coding for a small integral C4-dicarboxylate membrane transport protein and/or the gene coding for the 2-oxoglutarate/malate translocator are attenuated; b) enrichment of the desired L-amino acid in the medium or in the cells of the bacteria; and c) isolation of the L-amino acid, and optionally bacteria are used in which other genes of the biosynthetic pathway of the desired L-amino acid are additionally enhanced, or bacteria are used in which the metabolic pathways that decrease the formation of the desired L-amino acid are at least partially switched off.

IPC 1-7

C12P 13/04; **C12P 13/08**; **C07K 14/34**; **C12N 15/31**

IPC 8 full level

C07K 14/34 (2006.01); **C12N 1/21** (2006.01); **C12N 15/31** (2006.01); **C12P 13/04** (2006.01); **C12P 13/08** (2006.01)

CPC (source: EP)

C07K 14/34 (2013.01); **C12P 13/04** (2013.01); **C12P 13/08** (2013.01)

Citation (search report)

See references of WO 03054207A2

Cited by

CN107893089A

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 03054207 A2 20030703; **WO 03054207 A3 20040129**; AU 2002356730 A1 20030709; DE 10163167 A1 20030703; EP 1456392 A2 20040915

DOCDB simple family (application)

EP 0213287 W 20021126; AU 2002356730 A 20021126; DE 10163167 A 20011221; EP 02805292 A 20021126