

Title (en)

METHOD AND MICROORGANISM FOR THE PRODUCTION OF D-MANNITOL

Title (de)

VERFAHREN SOWIE MIKROORGANISMUS ZUR HERSTELLUNG VON D-MANNITOL

Title (fr)

PROCEDE ET MICRO-ORGANISME POUR PRODUIRE DU D-MANNITOL

Publication

EP 1549744 A1 20050706 (DE)

Application

EP 03757939 A 20031009

Priority

- DE 10247147 A 20021009
- EP 0311191 W 20031009

Abstract (en)

[origin: WO2004033676A1] The invention relates to a method and an organism for the production of D-mannitol. The production of D-mannitol can be improved by providing said method and microorganism, using an organism expressing mannitol-2-dehydrogenase (MDH) and formate-dehydrogenase (FDH, for co-factor regeneration). The sugar substrates and/or sugar substrate precursors of MDH are transported via a non-phosphorylating sugar transport system into the organism. The sugar transport system is, advantageously, a glucose facilitator (GLF) from *Zymomonas mobilis*.

IPC 1-7

C12N 9/04; **C12P 7/18**

IPC 8 full level

C12N 9/04 (2006.01); **C12P 7/18** (2006.01)

CPC (source: EP)

C12N 9/0006 (2013.01); **C12P 7/18** (2013.01)

Citation (search report)

See references of WO 2004033676A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 2004033676 A1 20040422; AU 2003273972 A1 20040504; CA 2501391 A1 20040422; DE 10247147 A1 20040422; EP 1549744 A1 20050706; JP 2006503559 A 20060202

DOCDB simple family (application)

EP 0311191 W 20031009; AU 2003273972 A 20031009; CA 2501391 A 20031009; DE 10247147 A 20021009; EP 03757939 A 20031009; JP 2004542472 A 20031009