

Title (en)

Method for producing L-glutamic acid by fermentation accompanied by precipitation

Title (de)

Verfahren zur Herstellung von L-Glutaminsäure durch Fermentation und in Verbindung mit Fällung

Title (fr)

Procédé de préparation d'acide L-glutamique par fermentation et accompagné d'une précipitation

Publication

EP 1078989 A8 20010425 (EN)

Application

EP 00117807 A 20000818

Priority

- JP 23480699 A 19990820
- JP 2000078771 A 20000321

Abstract (en)

[origin: EP1078989A2] A microorganism which can metabolize a carbon source at a specific pH in a liquid medium containing L-glutamic acid at a saturation concentration and the carbon source, and has ability to accumulate L-glutamic acid in an amount exceeding the amount corresponding to the saturation concentration in the liquid medium at the pH; and a method for producing L-glutamic acid by fermentation, which comprises culturing the microorganism in a liquid medium of which pH is adjusted to a pH at which L-glutamic acid is precipitated, to produce and accumulate L-glutamic acid and precipitate L-glutamic acid in the medium.

IPC 1-7

C12N 15/53; C12N 15/60; C12N 1/21; C12N 1/20; C12P 13/14; C12N 9/88; C12N 9/06

IPC 8 full level

C12N 1/21 (2006.01); **C12N 1/00** (2006.01); **C12N 1/20** (2006.01); **C12N 9/06** (2006.01); **C12N 9/88** (2006.01); **C12N 15/09** (2006.01); **C12N 15/53** (2006.01); **C12N 15/60** (2006.01); **C12P 13/14** (2006.01); **C12R 1/01** (2006.01)

CPC (source: EP KR US)

C12N 1/20 (2013.01 - KR); **C12N 1/205** (2021.05 - EP US); **C12N 9/0016** (2013.01 - EP US); **C12N 9/88** (2013.01 - EP US); **C12P 13/14** (2013.01 - EP US); **C12R 2001/01** (2021.05 - EP US)

Cited by

US7319025B2; USRE41800E; EP1233068A3; EP1233069A3; EP1233070A3; EP0952221A3; EP1233071A3; EP1655374A4; WO2015060314A1; WO2006068273A1; WO2007125954A1; WO2010084995A2; WO2008102572A1; WO2013018734A1; WO2009093703A1; WO2020171227A1; US7037690B2; US7432085B2; WO2014115815A1; WO2015050276A1; WO2022092018A1; WO2008133161A1; WO2007100009A1; US6653110B2; WO2012147989A1; US7501282B2; WO2011024583A1; WO2011096554A1; WO2011102305A2; WO2020204179A1; WO2010027045A1; WO2012011595A1; WO2012077739A1; WO2015030019A1; WO2021060438A1; EP2055771A2; US7354744B2; US7198943B2; US7879583B2; EP2345667A2; US8129151B2; WO2015122544A1; EP2093291A1; WO2008075483A1; WO2007119890A1; US8058035B2; EP2460873A1; WO2017146195A1; WO2008114721A1; EP2657332A1; WO2015041265A1; EP2559754A2; WO2013024904A1; EP2796560A1; WO2009088049A1; US7470524B2; EP2749652A2; WO2014185430A1; WO2015050234A1; EP3165608A1; WO2008090770A1; WO2008044409A1; WO2011013707A1; WO2013069634A1; WO2014115896A1; US8859243B2; WO2015060391A1; WO2020071538A1; US7294491B2; WO2015005406A1; EP3521433A1; EP4345166A2; WO2008102861A1; US7344874B2; US6596517B2; WO2010027022A1; US7785845B2; WO2012011596A1; EP3098319A1; EP3385389A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 1078989 A2 20010228; EP 1078989 A3 20011010; EP 1078989 A8 20010425; EP 1078989 B1 20060802; AT E335081 T1 20060815; AU 5345200 A 20010222; BR 0003695 A 20010605; BR 0003695 B1 20110823; CN 100379871 C 20080409; CN 101230366 A 20080730; CN 101230366 B 20110907; CN 1292421 A 20010425; DE 60029701 D1 20060914; DE 60029701 T2 20070809; DE 60029701 T8 20080103; ES 2269047 T3 20070401; ID 26915 A 20010222; JP 2001333769 A 20011204; JP 4427878 B2 20100310; KR 100799469 B1 20080130; KR 100866479 B1 20081111; KR 20010050133 A 20010615; KR 20070106959 A 20071106; KR 20080083103 A 20080916; KR 20090127855 A 20091214; MY 129239 A 20070330; PE 20010518 A1 20010510; PL 341974 A1 20010226; RU 2261272 C2 20050927; TW 200427836 A 20041216; TW I250211 B 20060301; US 2005227334 A1 20051013; US 2007134773 A1 20070614; US 2009162907 A1 20090625; US 7015010 B1 20060321; US 7208296 B2 20070424; US RE42350 E 20110510

DOCDB simple family (application)

EP 00117807 A 20000818; AT 00117807 T 20000818; AU 5345200 A 20000817; BR 0003695 A 20000818; CN 00130672 A 20000820; CN 200710167949 A 20000820; DE 60029701 T 20000818; ES 00117807 T 20000818; ID 20000691 D 20000821; JP 2000241253 A 20000809; KR 20000048059 A 20000819; KR 20070105509 A 20071019; KR 20080082448 A 20080822; KR 20090104090 A 20091030; MY PI20003761 A 20000817; PE 0008372000 A 20000817; PL 34197400 A 20000811; RU 2000122119 A 20000818; TW 89116664 A 20000817; TW 93113152 A 20000817; US 15026505 A 20050613; US 26692108 A 20081107; US 42942109 A 20090424; US 64189200 A 20000818; US 66807907 A 20070129