

## Title (en)

METHODS AND COMPOSITIONS FOR AMINO ACID PRODUCTION

## Title (de)

VERFAHREN UND ZUSAMMENSETZUNGEN ZUR AMINOSÄUREPRODUKTION

## Title (fr)

METHODES ET COMPOSITIONS DESTINEES A LA PRODUCTION D'ACIDES AMINES

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## Abstract (en)

[origin: WO2004108894A2] Methods and compositions for amino acid production using genetically modified bacteria are disclosed.

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**C12N 9/00** (2006.01); **C07H 21/02** (2006.01); **C07H 21/04** (2006.01); **C07K 1/00** (2006.01); **C12N 1/20** (2006.01); **C12N 9/02** (2006.01); **C12N 9/04** (2006.01); **C12N 9/10** (2006.01); **C12N 9/12** (2006.01); **C12N 9/14** (2006.01); **C12N 9/88** (2006.01); **C12N 15/00** (2006.01); **C12P 13/04** (2006.01); **C12P 13/08** (2006.01); **C12P 13/12** (2006.01)

## IPC 8 main group level

**C12N** (2006.01)

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## Citation (search report)

- [X] US 6451564 B1 20020917 - GUILLOUET STEPHANE [FR], et al
- [X] US 4601983 A 19860722 - NAKAMORI SHIGERU [JP], et al
- [X] US 5766925 A 19980616 - SUGIMOTO MASAKAZU [JP], et al
- [PX] WO 2004024933 A2 20040325 - BASF AG [DE], et al
- [A] WO 9953035 A1 19991021 - UNIV GEORGIA RES FOUND [US], et al
- [X] ARCHER J A C ET AL: "A C-terminal deletion in Corynebacterium glutamicum homoserine dehydrogenase abolishes allosteric inhibition by l-threonine", GENE, ELSEVIER, AMSTERDAM, NL, vol. 107, no. 1, 30 October 1991 (1991-10-30), pages 53 - 59, XP023539886, ISSN: 0378-1119, [retrieved on 19911030]
- See references of WO 2004108894A2

## Citation (examination)

- SRITHARAN V. ET AL: "METABOLISM OF ASPARTATE IN MYCOBACTERIUM-SMEGMATIS", EUROPEAN JOURNAL OF BIOCHEMISTRY, vol. 180, no. 3, 1989, pages 587 - 594, ISSN: 0014-2956
- FERNÁNDEZ MÓNICA ET AL: "Characterization of the hom-thrC-thrB cluster in aminoethoxyvinylglycine-producing Streptomyces sp. NRRL 5331.", MICROBIOLOGY (READING, ENGLAND) MAY 2002 LNKD- PUBMED:11988515, vol. 148, no. Pt 5, May 2002 (2002-05-01), pages 1413 - 1420, ISSN: 1350-0872

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## DOCDB simple family (application)

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