Title (en)
METHOD FOR PRODUCING L-AMINO ACIDS FROM D-AMINO ACIDS

Title (de)
VERFAHREN ZUR HERSTELLUNG VON L-AMINOSÄUREN AUS D-AMINOSÄUREN

Title (fr)
PROCEDE DE PRODUCTION D'ACIDES L-AMINES A PARTIR D'ACIDES D-AMINES

Publication
EP 1716241 A1 20061102 (DE)

Application
EP 05707022 A 20050127

Priority
• EP 2005000768 W 20050127
• DE 102004008445 A 20040219

Abstract (en)
[origin: DE102004008445A1] Recombinant microorganisms (I) (comprising a increased concentration of or activity of D-amino acid oxidase, L-amino acid dehydrogenase, an enzyme regenerating the co-substrate NADH and optionally catalase than the parental microorganism) is new. Independent claims are also included for: (1) a vector (A) comprising one or more of D-amino acid oxidase and amino acid dehydrogenase, for regenerating co-substrate NADH enzyme-coding nucleotide sequences; and (2) preparation of L-amino acids from D-amino acids using a enantioselective enzymatic synthesis, comprising adding (I) (comprising increased concentration of or activity of D-amino acid oxidase, L-amino acid dehydrogenase, an enzyme regenerating the co-substrate NADH and optionally catalase than the parental microorganism (e.g. wild type)) in solution containing the D-amino acids to convert the D-amino acids into L-amino acids; and isolating the formed L-amino acids.

IPC 8 full level
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