Title (en)

NOVEL GENE PRODUCTS OF BACILLUS LICHENIFORMIS WHICH FORM ODOROUS SUBSTANCES AND IMPROVED BIOTECHNOLOGICAL PRODUCTION METHODS BASED THEREON

Title (de)

NEUE, GERUCHSSTOFFE BILDENDE GENPRODUKTE VON BACILLLUS LICHENIFORMIS UND DARAUF AUFBAUENDE VERBESSERTE BIOTECHNOLOGISCHE PRODUKTIONSVERFAHREN

Title (fr)

NOUVEAUX PRODUITS GENIQUES DE BACILLUS LICHENIFORMIS FORMANT DES SUBSTANCES ODORANTES ET PROCEDE DE PRODUCTION BIOTECHNOLOGIQUE AMELIORE FAISANT INTERVENIR CES PRODUITS

Publication

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Application

EP 05752264 A 20050617

Priority

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Abstract (en)

[origin: WO2006000343A2] The present invention relates to 25 hitherto undescribed genes of B. licheniformis and gene products derived therefrom and all sufficiently homologous nucleic acids and proteins thereof. They occur in five different metabolic pathways for the formation of odorous substances. The metabolic pathways in question are for the synthesis of: 1) isovalerian acid (as part of the catabolism of leucine), 2) 2-methylbutyric acid and/or isobutyric acid (as part of the catabolism of valine and/or isoleucine), 3) butanol and/or butyric acid (as part of the metabolism of butyric acid), 4) propyl acid (as part of the metabolism of propionate) and/or 5) cadaverine and/or putrescine (as parts of the catabolism of lysine and/or arginine). The identification of these genes allows biotechnological production methods to be developed that are improved to the extent that, to assist these nucleic acids, the formation of the odorous substances synthesised via these metabolic pathways can be reduced by deactivating the corresponding genes in the micro-organism used for the biotechnological production. In addition, these gene products are thus available for preparing reactions or for methods according to their respective biochemical properties.

IPC 8 full level

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CPC (source: EP US)

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