

Title (en)
FERMENTATIVE PRODUCTION OF ORGANIC COMPOUNDS

Title (de)
FERMENTATIVE HERSTELLUNG ORGANISCHER VERBINDUNGEN

Title (fr)
PREPARATION DE COMPOSES ORGANIQUES PAR FERMENTATION

Publication
EP 1957659 A1 20080820 (DE)

Application
EP 06830136 A 20061127

Priority

- EP 2006068928 W 20061127
- DE 102005056667 A 20051128

Abstract (en)
[origin: DE102005056667A1] Method for preparing at least one organic compound (I) with at least 3 C atoms or at least two C and at least one N by fermentation comprises: (a) milling a starch source (S) to form a milled product (MP) that includes at least part of the non-starch containing solid components (X) of (S); (b) suspending (MP) in aqueous liquid to form a suspension; (c) hydrolysis of the starch components of MP by liquefaction and optionally subsequent saccharification; to produce an aqueous medium (M); and (d) using (M) in a fermentation for culturing a microorganism (MO) capable of overproducing (I). Method for preparing at least one organic compound (I) with at least 3 C atoms or at least two C and at least one N by fermentation comprises: (a) milling a starch source (S) to form a milled product (MP) that includes at least part of the non-starch containing solid components (X) of (S); (b) suspending (MP) in aqueous liquid to form a suspension of at least 45 wt.% dry matter content; (c) hydrolysis of the starch components of MP by liquefaction and optionally subsequent saccharification; to produce an aqueous medium (M) that contains the hydrolyzed starch components and at least some of (X); and (d) using (M) in a fermentation for culturing a microorganism (MO) capable of overproducing (I). In step (c), the suspension from step (b) is heated to above the gelatinization temperature of the starch component in MP by introduction of steam.

IPC 8 full level
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CPC (source: EP KR US)
C12P 13/08 (2013.01 - EP KR US); **C12P 13/14** (2013.01 - EP KR US); **C12P 19/14** (2013.01 - EP KR US)

Citation (search report)
See references of WO 2007060235A1

Citation (examination)

- US 5503750 A 19960402 - RUSSO JR LAWRENCE J [US], et al
- DE 3146558 A1 19830601 - GROSSE LOHMANN BERNHARD, et al
- DE 19519270 A1 19961205 - RAINER BERTHOLD [DE]

Citation (third parties)
Third party :

- DE 3146558 A1 19830601 - GROSSE LOHMANN BERNHARD, et al
- DE 19519270 A1 19961205 - RAINER BERTHOLD [DE]
- US 3787587 A 19740122 - WEBER G
- US 4306023 A 19811215 - CROMBIE LANCE B
- US 5503750 A 19960402 - RUSSO JR LAWRENCE J [US], et al
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- "Handbuch Mehl- und Schälmlüllerei", vol. 2, AGRIMEDIA, ISBN: 3-86037-230-0, article ERLING P, pages: 176 - 179, XP003030372
- CRUEGER W. ET AL: "Lehrbuch der Angewandten Microbiology", 1982, AKEDEMISCHE VERLAGSGESELLSCHAFT, WIESBADEN, article "Kohlenhydrat-Antibiotica", pages: 223, XP003030373

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