



(51) International Patent Classification:

C12P 19/00 (2006.01) C12N 15/63 (2006.01)

C12P 19/04 (2006.01) C12N 15/70 (2006.01)

(21) International Application Number:

PCT/EP2022/086205

(22) International Filing Date:

15 December 2022 (15.12.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

EP21217103 22 December 2021 (22.12.2021) EP

(71) Applicant: CHR. HANSEN A/S [DK/DK]; Boege Allé
10-12, 2970 Hoersholm (DK).(72) Inventors: FRERIGMANN, Henning; c/o Chr. Hansen
HMO GmbH, Maarweg 32, 53619 Rheinbreitbach (DE).
PARSCHAT, Katja; c/o Chr. Hansen HMO GmbH, Maarweg
32, 53619 Rheinbreitbach (DE). ENGLERT, Markus;
c/o Chr. Hansen HMO GmbH, Maarweg 32, 53619 Rheinbreitbach (DE). TROETSCHER, Christian; c/o Chr.
Hansen HMO GmbH, Maarweg 32, 53619 Rheinbreitbach (DE).

(74) Agent: HÜBEL, Andreas; Maarweg 32, 53619 Rheinbreitbach (DE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

(54) Title: REDUCED PANTOTHENIC ACID LEVELS IN FERMENTATIVE PRODUCTION OF OLIGOSACCHARIDES

(57) Abstract: Disclosed are means and methods for the fermentative production of an oligosaccharide of interest by a genetically engineered microbial cell, wherein concomitant biosynthesis of pantothenic acid is reduced or abolished.

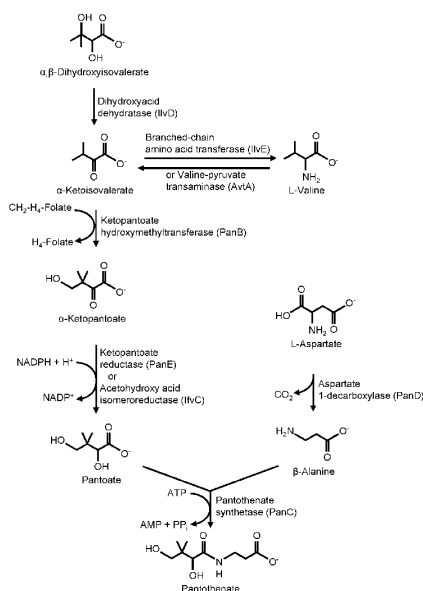


FIG. 1

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*
- *with sequence listing part of description (Rule 5.2(a))*