

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
26 October 2023 (26.10.2023)



(10) International Publication Number
WO 2023/205762 A1

(51) International Patent Classification:

A61K 35/745 (2015.01) A61K 31/702 (2006.01)
A61K 31/70 (2006.01) A23L 33/135 (2016.01)
A61K 31/7016 (2006.01) A61P 3/10 (2006.01)

(21) International Application Number:

PCT/US2023/066047

(22) International Filing Date:

21 April 2023 (21.04.2023)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

63/333,170 21 April 2022 (21.04.2022) US

(71) Applicant: **ABBOTT LABORATORIES** [US/US]; 100
Abbott Park Road, Abbott Park, Illinois 60064-3500 (US).

(72) Inventors: **LÓPEZ PEDROSA, José María**; C/ Luciano
nº 14, 18190 Cenes de la Vega Granada (ES). **MANZANO,**
Manuel; Calle Cartujo nº 48 CD-163, 18152 Dilar Granada
(ES). **RUEDA CABRERA, Ricardo**; C/Brazal, 2, 18008
Granada Granada (ES).

(74) Agent: **KOZLOWSKI, Holly**; 41 South High Street,
Porter Wright Morris & Arthur LLP, Columbus, Ohio 43215
(US).

(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, MU, 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, SC, 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).

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))

(54) Title: METHODS AND COMPOSITIONS FOR SLOWING DIABETES DEVELOPMENT OR REDUCING A RISK OF DIA-
BETES

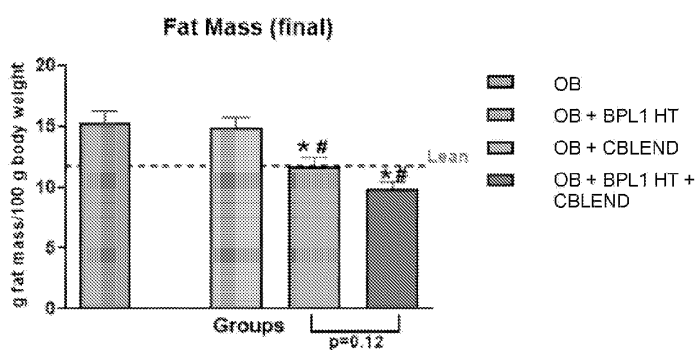


FIG. 1

(57) Abstract: A method for slowing diabetes development in a diabetic or prediabetic individual or reducing a risk of diabetes devel-
opment in an individual at risk of developing diabetes comprises administering *Bifidobacterium animalis* subsp. *Lactis* CECT 8145
(BPL1) and a carbohydrate blend to the individual. The carbohydrate blend comprises a source of at least one carbohydrate that provides
rapidly available glucose, a source of at least one carbohydrate that provides slowly available glucose, and a source of at least one non-
digestible carbohydrate or resistant starch. A nutritional composition comprises protein, fat, the carbohydrate blend, and BPL1.

WO 2023/205762 A1