

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
30 December 2021 (30.12.2021)



(10) International Publication Number
WO 2021/259966 A1

(51) International Patent Classification:

A23K 10/16 (2016.01) A23K 50/40 (2016.01)
A23K 20/147 (2016.01) A23L 13/40 (2016.01)
A23K 20/158 (2016.01) A23L 13/60 (2016.01)
A23K 20/163 (2016.01)

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))
- with (an) indication(s) in relation to deposited biological material furnished under Rule 13bis separately from the description (Rules 13bis.4(d)(i) and 48.2(a)(viii))

(21) International Application Number:

PCT/EP2021/067067

(22) International Filing Date:

23 June 2021 (23.06.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

20181591.7 23 June 2020 (23.06.2020) EP

(71) Applicant: **THE PROTEIN BREWERY B.V.** [NL/NL];
Goeseelsstraat 10, 4817 MV Breda (NL).

(72) Inventors: **LEUNE, Elisa**; Pepermuntstraat 12, 3544 CC
Utrecht (NL). **KNOBEL, Kirsten**; Schiedamsseweg 3A1,
3026 AA Rotterdam (NL). **DE HAAN, Ap**; Begijnakker
14, 4841 CL Prinsenbeek (NL). **DE LAAT, Wilhelmus
Theodorus Antonius Maria**; Loopschansstraat 54, 4817
KW Breda (NL).

(74) Agent: **NEDERLANDSCH OCTROOIBUREAU**;
P.O.Box 29720, 2502 LS The Hague (NL).

(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, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN,
KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD,
ME, 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, 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, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,

(54) Title: NOVEL FOOD

(57) Abstract: The present invention relates to compositions comprising biomass of a thermophilic fungus for use as an ingredient in food products, beverages, pet foods or animal feed. Due to its nutritional composition the biomass of the thermophilic fungus can be used as a source of protein and/or amino acids, including essential amino acids; lipids, including oleic and linoleic acids; dietary fiber; choline and vitamins such as vitamin E; and minerals such as iron. The biomass of the thermophilic fungus is available as a compressed biomass cake or as a dried powder. As such the biomass of the thermophilic fungus is suitable as ingredient in meat replacers, and in hybrid meat products. In the form of dried powder the biomass of the thermophilic fungus can be easily mixed with other ingredients to produce bakery products such as bread or soups.



WO 2021/259966 A1