

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/JP2020/014079

**A. CLASSIFICATION OF SUBJECT MATTER**  
 Int.Cl. A61P21/00(2006.01)i, A61P21/06(2006.01)i, A23L33/135(2016.01)i, A61K35/745(2015.01)i  
 FI: A61K35/745ZNA, A23L33/135, A61P21/00, A61P21/06  
 According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
 Int.Cl. A61K35/745, A23L33/135, A61P21/00, A61P21/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan	1922-1996
Published unexamined utility model applications of Japan	1971-2020
Registered utility model specifications of Japan	1996-2020
Published registered utility model applications of Japan	1994-2020

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
 JSTPlus/JMEDPlus/JST7580(JDreamIII), CAPLUS/MEDLINE/EMBASE/BIOSIS (STN), PubMed, 医中誌 WEB (Ichushi WEB)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	CAIMARI, A. et al., Heat-killed Bifidobacterium animalis subsp. Lactis CECT 8145 increases lean mass and ameliorates metabolic syndrome in cafeteria-fed obese rats, Journal of Functional Foods, 2017, vol. 38, pp. 251-263, doi: 10.1016/j.jff.2017.09.029, ISSN 1756-4646, p. 251, abstract, p. 254, right column, "3.2. Heat-killed Ba8145 administration increased lean mass and decreased mesenteric adiposity in CAF-fed rats", p. 260, right column, second paragraph, fig. 1c	1-14
Y	MINAMI, J. et al., Effects of Bifidobacterium breve B-3 on body fat reductions in pre-obese adults: a randomized, double-blind, placebo-controlled trial, Bioscience of Microbiota, Food and Health, 2018, vol. 37, no. 3, pp. 67-75, doi: 10.12938/bmfh.18-001, ISSN 2186-3342, p. 69, right column, "Body composition", fig. 2C	1-14

Further documents are listed in the continuation of Box C.       See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 02.06.2020	Date of mailing of the international search report 16.06.2020
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Name and mailing address of the ISA/ Japan Patent Office 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Authorized officer  Telephone No.
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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2018/207741 A1 (KANEKA CORPORATION; KOBE UNIVERSITY) 15.11.2018 (2018-11-15), claims 1-2, 4-5, paragraphs [0002], [0003], [0042]	1-14
A	KONDO, S. et al., Antiobesity effects of Bifidobacterium breve strain B-3 supplementation in a mouse model with high-fat diet-induced obesity, Bioscience, Biotechnology, and Biochemistry, 2010, p. 74, no. 8, pp. 1656-1661, doi: 10.1271/bbb.100267, ISSN 0916-8451, p. 1657, left column, "Materials and Methods", first paragraph	9
P, X	TODA, K. et al., Heat-killed Bifidobacterium breve B-3 enhances muscle functions: possible involvement of increases in muscle mass and mitochondrial biogenesis, Nutrients, 15 January 2020., vol. 12, no. 1, 219, doi: 10.3390/nu12010219, ISSN 2072-6643, entire text, all drawings	1-14
P, X	WO 2019/087280 A1 (MORINAGA MILK INDUSTRY CO., LTD.) 09.05.2019 (2019-05-09), claims 5-6, paragraphs [0020], [0022], [0028], [0045], examples	3-9, 11-12, 14

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.

PCT/JP2020/014079

WO 2018/207741 A1 15.11.2018 (Family: none)

WO 2019/087280 A1 09.05.2019 (Family: none)