

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2019/016670

A. CLASSIFICATION OF SUBJECT MATTER

A23L 11/00(2016.01)i, A23L 11/30(2016.01)i

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)

A23L 11/00; A23L 1/20; A61K 31/70; A61K 36/06; C07C 39/21; C07H 17/07; C12N 1/20; C12P 19/60; C12P 7/22; A23L 11/30

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

Korean utility models and applications for utility models: IPC as above
Japanese utility models and applications for utility models: IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS (KIPO internal) & Keywords: soy bean, bacillus subtilis, ion-exchange resin, short-chain fatty acids, 1-deoxynojirimycin

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 10-2012-0107254 A (BIOTOPIA. CO., LTD.) 02 October 2012 See claims 10-13; paragraph [0024].	1-14
A	JP 07-070170 A (SHOKUHIN SANGYO ECO PROCESS GIJUTSU KENKYU KUMIAI) 14 March 1995 See abstract; claim 1.	1-14
A	JP 2005-229893 A (YO, E.) 02 September 2005 See abstract; claim 1.	1-14
A	KR 10-2008-0033664 A (LEE, Oh Hyoung) 17 April 2008 See claims 1, 3.	1-14
A	JP 2016-088858 A (FUTAMURA, Y.) 23 May 2016 See claim 1.	1-14



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"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)

"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

"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

"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

"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

"&" document member of the same patent family


Date of the actual completion of the international search

24 MARCH 2020 (24.03.2020)

Date of mailing of the international search report

24 MARCH 2020 (24.03.2020)

Name and mailing address of the ISA/KR


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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/KR2019/016670

Patent document cited in search report	Publication date	Patent family member	Publication date
KR 10-2012-0107254 A	02/10/2012	KR 10-1302652 B1	03/09/2013
JP 07-070170 A	14/03/1995	JP 2912133 B2	28/06/1999
JP 2005-229893 A	02/09/2005	None	
KR 10-2008-0033664 A	17/04/2008	None	
JP 2016-088858 A	23/05/2016	None	