

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P6292PC00	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2018/073217	International filing date (<i>day/month/year</i>) 29 August 2018 (29-08-2018)	(Earliest) Priority Date (<i>day/month/year</i>) 29 August 2017 (29-08-2017)
Applicant CHR. HANSEN A/S		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of:

- the international application in the language in which it was filed
 a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6*bis*(a)).

c. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. **Certain claims were found unsearchable** (See Box No. II)

3. **Unity of invention is lacking** (see Box No III)

4. With regard to the **title**,

- the text is approved as submitted by the applicant
 the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- the text is approved as submitted by the applicant
 the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 7

- as suggested by the applicant
 as selected by this Authority, because the applicant failed to suggest a figure
 as selected by this Authority, because this figure better characterizes the invention

b. none of the figures is to be published with the abstract

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2018/073217

A. CLASSIFICATION OF SUBJECT MATTER
INV. A61K9/48
ADD.
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)
A61K
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EPO-Internal, CHEM ABS Data, EMBASE, WPI Data, BIOSIS, FSTA

C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2016/065279 A1 (SYMBIOTIC HEALTH INC [US]) 28 April 2016 (2016-04-28)	1-7, 13-15
Y	figures 2a, 2b example 1 claims	1-15
X	US 2012/039998 A1 (VALLA CLAUDIA [IT] ET AL) 16 February 2012 (2012-02-16)	1,2,4-9, 15
Y	examples 1,2 examples	1-15
Y	GB 1 190 386 A (GREEN CROSS CORP [JP]) 6 May 1970 (1970-05-06) the whole document	1-15
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Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents :

<p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"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)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"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</p> <p>"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</p> <p>"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</p> <p>"&" document member of the same patent family</p>
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Date of the actual completion of the international search 9 October 2018	Date of mailing of the international search report 25/10/2018
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Schüle, Stefanie

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2018/073217

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 310 555 A (ZIMMER WILLIAM [US]) 10 May 1994 (1994-05-10) figures examples	1-15
Y	----- US 2017/189363 A1 (KLEIN JEFFREY [US] ET AL) 6 July 2017 (2017-07-06) examples claims	1-15
Y	----- WO 2016/178775 A1 (MICROBIOME HEALTH RES INST INC [US]) 10 November 2016 (2016-11-10) claims -----	1-15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/EP2018/073217

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2016065279 A1	28-04-2016	US 2017304374 A1 WO 2016065279 A1	26-10-2017 28-04-2016
US 2012039998 A1	16-02-2012	AU 2011289592 A1 CA 2808610 A1 CN 103282028 A DK 2603208 T3 EP 2603208 A2 ES 2500046 T3 JP 6214395 B2 JP 2013533313 A KR 20130099936 A MX 340235 B RU 2013110321 A US 2012039998 A1 WO 2012021432 A2	21-02-2013 16-06-2012 04-09-2013 15-09-2014 19-06-2013 29-09-2014 18-10-2017 22-08-2013 06-09-2013 01-07-2016 20-09-2014 16-02-2012 16-02-2012
GB 1190386 A	06-05-1970	NONE	
US 5310555 A	10-05-1994	NONE	
US 2017189363 A1	06-07-2017	NONE	
WO 2016178775 A1	10-11-2016	NONE	