

PATENT COOPERATION TREATY
PCT
INTERNATIONAL SEARCH REPORT
(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P-71-PCT-7	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/IB2015/057682	International filing date (<i>day/month/year</i>) 08 October 2015	(Earliest) Priority Date (<i>day/month/year</i>) 09 October 2014
Applicant MSD WELLCOME TRUST HILLEMANN LABORATORIES PVT. LTD.		
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 43.6bis(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. ☐ 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/IB2015/057682

A. CLASSIFICATION OF SUBJECT MATTER

**C07H 3/06 (2006.01) C08B 37/00 (2006.01) C07K 14/33 (2006.01) C07K 14/34 (2006.01) A61K 39/02 (2006.01)
A61P 31/04 (2006.01)**

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)

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)

REGISTRY, CAPLUS - structure search based on examples

GOOGLE PATENTS - applicant and inventor names

Internal IP Australia Databases - applicant and inventor names

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	Documents are listed in the continuation of Box C	



Further documents are listed in the continuation of Box C



See patent family annex

* "A"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance	"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
"E"	earlier application or patent but published on or after the international filing date	"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
"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)	"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
"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"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 13 January 2016		Date of mailing of the international search report 13 January 2016	
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA Email address: pct@ipaustalia.gov.au		Authorised officer Cassandra Smith AUSTRALIAN PATENT OFFICE (ISO 9001 Quality Certified Service) Telephone No. +61262223633	

INTERNATIONAL SEARCH REPORT C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		International application No. PCT/IB2015/057682
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2005/003775 A2 (INSTITUT PASTEUR et al.) 13 January 2005 figure 23; pages 4-5, 6 (line 4-6), 11 (line 4-18), 104-106, 122 (line 20) -123 (line 13), 143; compounds 501-503, 508, 518, 538, 401, 601-602, 708-713, 801	1-10, 13-15
X	Wright K et al. 'Preparation of synthetic glycoconjugates as potential vaccines against <i>Shigella flexneri</i> serotype 2a disease' Organic Biomolecular Chemistry, 2004, Vol 2, page 1518-1527 Introduction, Experimental; scheme 5; compound 1-3	1-10, 13-15
X	Bélot F et al. 'Synthesis of two linear PADRE conjugates bearing a deca- or pentadecasaccharide B epitope as potential synthetic vaccines against <i>Shigella flexneri</i> serotype 2a infection' Chemistry - A European Journal, 2005, Vol 11, page 1625-1635 compounds 1-2; scheme 1, 3, 4; Introduction; page 1634 column 2	1-10, 13-14

INTERNATIONAL SEARCH REPORT Information on patent family members		International application No. PCT/IB2015/057682	
This Annex lists known patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.			
Patent Document/s Cited in Search Report		Patent Family Member/s	
Publication Number	Publication Date	Publication Number	Publication Date
WO 2005/003775 A2	13 January 2005	WO 2005003775 A2	13 Jan 2005
		CA 2434668 A1	04 Jan 2005
		CA 2434685 A1	04 Jan 2005
		CA 2470262 A1	04 Jan 2005
		CA 2531023 A1	13 Jan 2005
		EP 1642132 A2	05 Apr 2006
		EP 1642132 B1	22 Jun 2011
		EP 2369345 A1	28 Sep 2011
		EP 2369345 B1	01 Oct 2014
		US 2008112951 A1	15 May 2008
		US 8124380 B2	28 Feb 2012
		US 2013243751 A1	19 Sep 2013
		US 2014161793 A2	12 Jun 2014
End of Annex			
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001. Form PCT/ISA/210 (Family Annex)(July 2009)			