

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
30 November 2006 (30.11.2006)

PCT

(10) International Publication Number
WO 2006/127798 A3

(51) International Patent Classification:

A61K 39/00 (2006.01) A01N 63/00 (2006.01)
A61K 39/40 (2006.01) A61K 45/00 (2006.01)
A61K 39/08 (2006.01)

(21) International Application Number:

PCT/US2006/020064

(22) International Filing Date: 23 May 2006 (23.05.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/683,787 24 May 2005 (24.05.2005) US

(71) Applicant (for all designated States except US): **THE UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY OF THE NAVY** [US/US]; NAVAL MEDICAL RESEARCH CENTER, 503 Robert Grant Ave, Code OOL, Silver Spring, MD 20910 (US).

(72) Inventor: **SAVARINO, Stephen**; 10111 Frederick Ave, Kensington, MD 20895 (US).

(74) Agents: **HEMBY, Joseph, K., Jr.** et al.; NAVAL MEDICAL RESEARCH CENTER, 503 Robert Grant Ave. Code OOL, Silver Spring, MD 20910 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- with sequence listing part of description published separately in electronic form and available upon request from the International Bureau

(88) Date of publication of the international search report:
24 December 2008



WO 2006/127798 A3

(54) Title: ANTI-ADHESIN BASED PASSIVE IMMUNOPROPHYLACTIC

(57) Abstract: The invention relates to an immunogenic composition and method of the immunogenic composition for the production and administration of a passive immunoprophylactic against enterotoxigenic Escherichia coli. The immunoprophylactic is made collecting anti-adhesin in the colostrum or milk of vaccinated domesticated animals such as cows. The immunoprophylactic is administered either as a dietary supplement or in capsular or tablet form.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/20064

A. CLASSIFICATION OF SUBJECT MATTER

IPC: **A61K 39/00(2006.01);A61K 39/40(2006.01);A61K 39/08(2006.01);A01N 63/00(2006.01);A61K 45/00(2006.01)**

USPC: 424/133.1,167.1,239.1,247.1,93.41,184.1,278.1

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)

U.S. : 424/133.1, 167.1, 239.1, 247.1, 93.41, 184.1, 278.1

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)

EAST, STN, PUB MED, GOOGLE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	SADOWSKI U.S. PATENT 4,652,448, <i>24 March 1997</i>	1-29
A	ANANTHA ET AL., INFECTION AND IMMUNITY, 2004; 72(12): 7190-7201	1-29
A	KORHONEN ET AL., BRITISH JOURNAL OF NUTRITION, 2000; 84(S1): S75-S80	27-29

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	"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 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 18 June 2008 (18.06.2008)	Date of mailing of the international search report 30 SEP 2008
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer <i>Valerie Bell-Harris</i> Lakia Tongue Telephone No. 571-272-2921