(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
19 July 2007 (19.07.2007)

PCT

(10) International Publication Number
WO 2007/081287 A1

(51) International Patent Classification:
A61P 31/00 (2006.01) *A61K 33/06* (2006.01)
A61K 39/00 (2006.01) *A61P 37/04* (2006.01)

(21) International Application Number:
PCT/SG2006/000176

(22) International Filing Date: 27 June 2006 (27.06.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/331,575 13 January 2006 (13.01.2006) US

(71) Applicant *(for all designated States except US)*: **NEW-BIOMED PIKA PTE LTD** [SG/SG]; 20 Maxwell Road, #08-11 Maxwell House, Singapore 069113 (SG).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **LIN, Haixiang** [CN/CN]; Unit 1-203, Building #E31 Sanqu, Fangxingyuan, Feng Tai District, Beijing 100078 (CN). **LI, Lie Tao, Victor** [SG/SG]; 20 Maxwell Road, #08-11 Maxwell House, Singapore 069113 (SG).

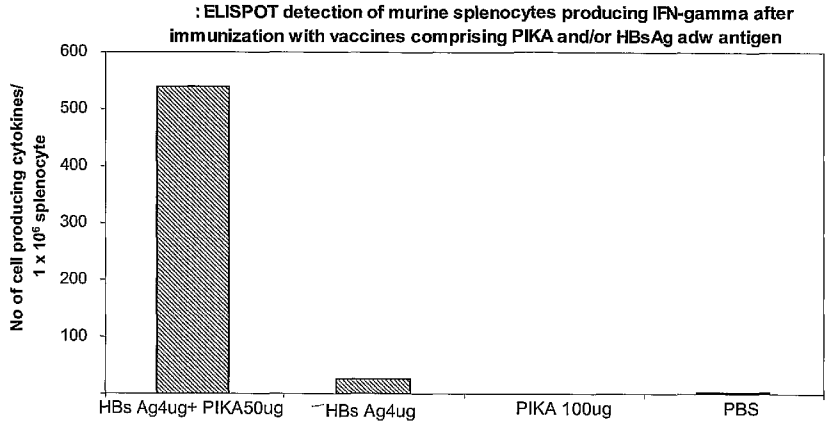
(74) Agent: **MATTEUCCI, Gianfranco**; Lloyd Wise, Tanjong Pagar, P.O. Box 636, Singapore 910816 (SG).

(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, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, 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, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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).

[Continued on next page]

(54) Title: IMMUNOGENIC SUBSTANCES COMPRISING A POLYINOSINIC ACID - POLYCYTIDILIC ACID BASED ADJUVANT



(57) Abstract: The present invention provides a polynucleotide adjuvant (PICKCa) composition and methods of use in eliciting an immune response, in particular a mucosal immune response. The polynucleotide adjuvant comprises of a polyriboinosinic-polyribocytidylic acid (PIC), at least one antibiotic and at least one positive ion. The present invention also provides an immunogenic composition comprising the polynucleotide adjuvant composition together with other immunogenic compositions such as an antigen (e.g., as in a vaccine) selected from viral, bacterial, fungal, parasitic and/or cancer antigens. The present invention further contemplates methods of use of such adjuvant compositions, particularly in eliciting an immune response, in particular a mucosal immune response to an antigenic compound.

WO 2007/081287 A1

Declaration under Rule 4.17:
— *of inventorship (Rule 4.17(iv))*

Published:
— *with international search report*

(48) Date of publication of this corrected version:
21 December 2007

(15) Information about Correction:
see PCT Gazette No. 51/2007 of 21 December 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.