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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
29 January 2009 (29.01.2009)

PCT

(10) International Publication Number
WO 2009/013443 A1

(51) International Patent Classification:
A61K 39/085 (2006.01)

(21) International Application Number:
PCT/GB2007/002792

(22) International Filing Date: 23 July 2007 (23.07.2007)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant *(for all designated States except US)*: **VACCINE RESEARCH INTERNATIONAL PLC** [GB/GB]; 22 Alcester Road, Moseley, Birmingham B13 8BE (GB).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **AHMAD, Afshan** [GB/GB]; Vaccine Research International PLC, 22 Alcester Road, Moseley, Birmingham B13 8BE (GB). **SKINNER, Gordon, Robert, Bruce** [GB/GB]; Vaccine Research International PLC, 22 Alcester Road, Moseley, Birmingham B13 8BE (GB).

(74) Agent: **GILHOLM, Harrison**; Marlborough House, Westminster Place, York Business Park, Nether Poppleton, York, YO26 6RW (GB).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, 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, MT, 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 (an) indication(s) in relation to deposited biological material furnished under Rule 13bis separately from the description*

WO 2009/013443 A1

(54) Title: INACTIVATED STAPHYLOCOCCAL WHOLE-CELL VACCINE

(57) Abstract: The vaccine that is protective against pathogenic bacterial species, typically staphylococcal species, and including methods to prepare said vaccine and to culture pathogenic bacteria.