

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
08 February 2024 (08.02.2024)



(10) International Publication Number
WO 2024/030931 A1

(51) International Patent Classification:
A61K 39/095 (2006.01) *C07K 14/22* (2006.01)

SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

(21) International Application Number:
PCT/US2023/071474

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))
- with sequence listing part of description (Rule 5.2(a))

(22) International Filing Date:
02 August 2023 (02.08.2023)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/370,333 03 August 2022 (03.08.2022) US

(71) Applicant: **SANOFI PASTEUR INC.** [US/US]; 1 Discovery Drive, Swiftwater, Pennsylvania 18370-0187 (US).

(72) Inventors: **AUSAR, Salvador Fernando**; c/o Sanofi, Patent Department, 450 Water Street, Cambridge, Massachusetts 02141 (US). **BALHARA, Vinod**; c/o Sanofi, Patent Department, 450 Water Street, Cambridge, Massachusetts 02141 (US). **DARMONT, Anne-Gaëlle**; c/o Sanofi, Patent Department, 46 avenue de la Grande Armée, 75017 Paris (FR). **RAHMAN, Nausheen**; c/o Sanofi, Patent Department, 450 Water Street, Cambridge, Massachusetts 02141 (US).

(74) Agent: **BAUR, Amelia F.** et al.; McNeill Baur PLLC, 125 Cambridge Park Drive, Suite 301, Cambridge, Massachusetts 02140 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE,

(54) Title: ADJUVANTED IMMUNOGENIC COMPOSITION AGAINST *NEISSERIA MENINGITIDIS* B

(57) Abstract: The disclosure relates to an immunogenic composition comprising a combination of *Neisseria meningitidis* serogroup B antigens, said combination comprising at least one factor H binding protein (fHBP) A and at least one factor H binding protein (fHBP) B, and an aluminum hydroxyphosphate (AlPO₄) adjuvant, the AlPO₄ adjuvant being selected as having a point of zero charge (PZC) below 5.

WO 2024/030931 A1