

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
01 May 2025 (01.05.2025)



(10) International Publication Number
WO 2025/088585 A1

(51) International Patent Classification:

A61K 39/12 (2006.01) A61K 39/00 (2006.01)
A61K 39/39 (2006.01) A61P 31/14 (2006.01)

(21) International Application Number:

PCT/IB2024/060548

(22) International Filing Date:

25 October 2024 (25.10.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/592,974 25 October 2023 (25.10.2023) US
63/560,475 01 March 2024 (01.03.2024) US

(71) Applicants: **NOVAVAX AB** [SE/SE]; Kungsgatan 109,
753 18 Uppsala (SE). **NOVAVAX, INC.** [US/US]; 700
Quince Orchard Road, Gaithersburg, Maryland 20878 (US).

(72) Inventors: **PALM, Anna-Karin E.**; c/o Novavax AB,
Kungsgatan 109, 753 18 Uppsala (SE). **CARNROT, Cecilia**;
c/o Novavax AB, Kungsgatan 109, 753 18 Uppsala (SE).
STERTMAN, Linda; c/o Novavax AB, Kungsgatan 109,
753 18 Uppsala (SE).

(74) Agent: **SPEIER, Gary**; Carlson, Caspers, Vandenburg &
Lindquist, P.A., 225 S. Sixth St., Suite 4200, Minneapolis,
Minnesota 55402 (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,
SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- in black and white; the international application as filed
contained color or greyscale and is available for download
from PATENTSCOPE

(54) Title: SAPONIN-BASED ADJUVANTS AND METHODS OF CHARACTERIZING SAME

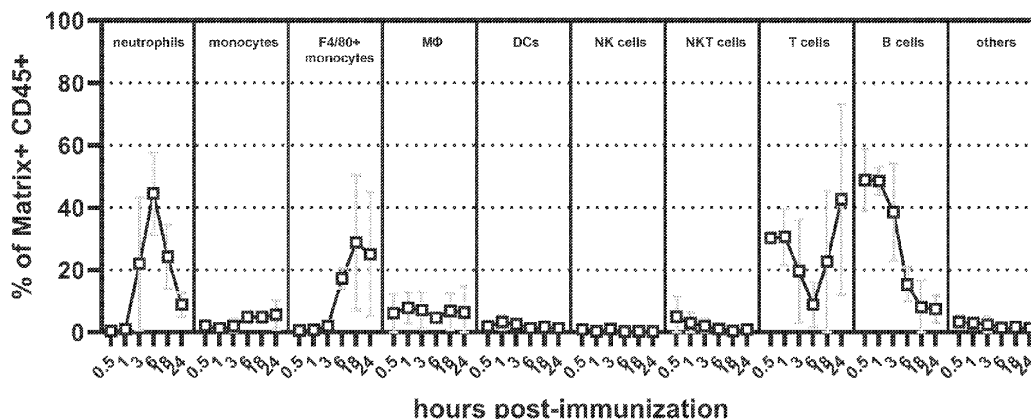


FIG. 8B

(57) Abstract: Immunogenic compositions that include an adjuvant formed from nanoparticles of saponins combined with cholesterol and phospholipids have particular interactions with body tissue and immune cells. These interactions include increased immune response in the draining lymph node, strong activation of T and B cells in the lymph node, and rapid clearance of the saponin fraction while the cholesterol fraction remains in the system.

WO 2025/088585 A1