

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
05 May 2022 (05.05.2022)



(10) International Publication Number
WO 2022/094461 A1

(51) International Patent Classification:
C12N 7/02 (2006.01) C12N 15/864 (2006.01)

(21) International Application Number:
PCT/US2021/057716

(22) International Filing Date:
02 November 2021 (02.11.2021)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/108,629 02 November 2020 (02.11.2020) US

(71) Applicant: **BIOMARIN PHARMACEUTICAL INC.**
[US/US]; 105 Digital Drive, Novato, California 94949 (US).

(72) Inventors: **MAGA, John**; 105 Digital Drive, Novato, California 94949 (US). **VORA, Harmit**; 105 Digital Drive, Novato, California 94949 (US). **SHETH, Rahul**; 105 Digital Drive, Novato, California 94949 (US). **GOLD, Daniel**; 105 Digital Drive, Novato, California 94949 (US). **RISHI, Anant**; 39428 Squirrel Road, Newark, California 94560 (US). **ZHANG, Yanhong**; 105 Digital Drive, Novato, California 94949 (US). **TRAN, Kieu**; 105 Digital Drive, Novato, California 94949 (US).

(74) Agent: **ARMSTRONG, MaryAnne**; c/o Birch, Stewart, Kolasch & Birch, LLP, 8110 Gatehouse Rd., Falls Church, 22042 (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, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, 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, GH, GM, KE, LR, LS, MW, MZ, NA, RW, 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, 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).

(54) Title: PROCESS FOR ENRICHING ADENO-ASSOCIATED VIRUS

(57) Abstract: The present invention provides process for enriching adeno-associated virus particles using anion exchange chromatography and zonal ultracentrifugation.

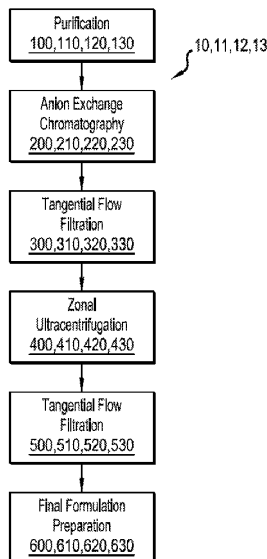


FIG.13

WO 2022/094461 A1

[Continued on next page]

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))*