

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
18 November 2021 (18.11.2021)



(10) International Publication Number
WO 2021/228930 A3

(51) International Patent Classification:

C12N 15/86 (2006.01) C11D 1/00 (2006.01)

(21) International Application Number:

PCT/EP2021/062605

(22) International Filing Date:

12 May 2021 (12.05.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/024,643 14 May 2020 (14.05.2020) US

(71) Applicant: **MERCK PATENT GMBH** [DE/DE]; Frankfurter Strasse 250, 64293 Darmstadt (DE).

(72) Inventors: **LEY, Moritz**; c/o Merck KGaA, Frankfurter Strasse 250, 64293 DARMSTADT (DE). **WEISS, Eric**; c/o EMD Millipore Corporation, 400 Summit Drive, BURLINGTON, MA 01803, Massachusetts (US). **SAKSULE, Ashish**; c/o EMD Millipore Corporation, 400 Summit Drive, BURLINGTON, MA 01803, Massachusetts (US). **GUAN, Dongli**; c/o EMD Millipore Corporation, 400 Summit Drive, BURLINGTON, MA 01803, Massachusetts (US). **LUTZ, Herbert**; c/o EMD Millipore Corporation, 400 Summit Drive, BURLINGTON, MA 01803, Massachusetts (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).

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))

(88) Date of publication of the international search report:

16 December 2021 (16.12.2021)

(54) Title: METHODS AND COMPOSITIONS FOR PURIFYING ADENO ASSOCIATED VIRUS PARTICLES OR ADENOVIRUSES

(57) Abstract: The present invention relates to compositions and methods for lysing cells and isolating and/or purifying adeno-associated virus particles or adenovirus particles using a detergent selected from the group of alkyltrimethylammonium oxides.

WO 2021/228930 A3