(A1)

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

G00002

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
6 June 2002 (06.06.2002)

PCT

(10) International Publication Number
WO 02/044348 A3

(51) International Patent Classification[7]: C12N 7/02

(21) International Application Number: PCT/US01/44684

(22) International Filing Date:
28 November 2001 (28.11.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/253,823 29 November 2000 (29.11.2000) US

(71) Applicant: SCHERING CORPORATION [US/US]; Patent Department - K-6-1 1990, 2000 Galloping Hill Road, Kenilworth, NJ 07033-0530 (US)

(72) Inventors: CANNON-CARLSON, Susan, V., 6 Shady Terrace, Wayne, NJ 07470 (US) CUTLER, Collette, M., 104 Natalie Court, Bloomingdale, NJ 07403 (US). VELLEKAMP, Gary, J., 10 Clinton Road, Glen Ridge, NJ 07028 (US) VOLOCH, Marcio,, 600 Colombus Avenue, Apartment 7R, New York, NY 10024 (US).

(74) Agent: GROCHALA, Richard, J., Schering - Plough Corporation, Patent Department-K-6-1 1990, 2000 Galloping Hill Road, Kenilworth, NJ 07033 (US).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LU, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UZ, VN, YU, ZA, ZM.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:
— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations*

Published:
— *with international search report*

(88) Date of publication of the international search report:
7 November 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette

1621162

WO 02/044348 A3

(54) Title: METHOD FOR PURIFYING ADENOVIRUSES

(57) Abstract: Methods for purifying adenoviruses from a contaminated sample using a hydroxyapatite medium are provided. Sodium chloride concentrations present in buffers used throughout the method are at least 150 mM to prevent the adenovirus from irreversibly binding to the hydroxyapatite. Levels of contaminants and empty adenovirus capsids from samples purified by conventional purification techniques are further reduced to provide a highly pure adenovirus preparation.