2004078507

07 DEC. 2004

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

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau

162162

(43) International Publication Date
18 March 2004 (18.03.2004)

PCT

(10) International Publication Number
WO 2004/022729 A1

(51) International Patent Classification[7]: C12N 5/06, 7/00, A61K 39/12, A61P 31/12

(21) International Application Number:
PCT/EP2003/009704

(22) International Filing Date:
1 September 2003 (01.09.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PA 2002 01302 5 September 2002 (05.09.2002) DK

(71) Applicant (*for all designated States except US*): **BAVARIAN NORDIC A/S** [DK/DK]; Bogeskovvej 9,, Kvistgaard, DK-3490 (DK).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **RÄTHE, INGMAR** [DE/DE]; Jutastrasse 22, 80636 Munich (DE). **Felder, Eva** [DE/DE]; Wilderich-Lang-Strasse 6, München, D-80634 (DE). **HELLER, Karl** [DE/DE]; Dorfangerweg 125, 85774 Unterföhring (DE).

(74) Common Representative: **ALT, Michael**; Bavarian Nordic GmbH, Fraunhoferstrasse 18b, 82152 Martinsried (DE).

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

(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, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, 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 applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, 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, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)*

Published:

— *with international search report*

(48) Date of publication of this corrected version:
17 March 2005

(15) Information about Correction:
see PCT Gazette No. 11/2005 of 17 March 2005, Section II

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.

WO 2004/022729 A1

(54) Title: METHOD FOR THE CULTIVATION OF PRIMARY CELLS AND FOR THE AMPLIFICATION OF VIRUSES UNDER SERUM FREE CONDITIONS

(57) Abstract: The present invention relates to a method for the cultivation of primary cells. The primary cells are cultivated in a serum free medium comprising a factor selected from the group consisting of growth factors and attachment factors. The method for the cultivation of primary cells may be one step in a method for the amplification of viruses, such as poxviruses. According to this latter method the primary cells are cultivated in a serum free medium comprising a factor selected from the group consisting of growth factors and attachment factors. The cells are then infected with the virus and the infected cells are cultivated in serum free medium until progeny virus is produced.

ACTION