



(51) International Patent Classification:

C07H 1/00 (2006.01) *C07H 19/16* (2006.01)
C07H 19/06 (2006.01)

(21) International Application Number:

PCT/GB2013/053018

(22) International Filing Date:

15 November 2013 (15.11.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

1220666.0 16 November 2012 (16.11.2012) GB
1307314.3 23 April 2013 (23.04.2013) GB

(71) Applicant: **UNIVERSITY COLLEGE CARDIFF CONSULTANTS LIMITED** [GB/GB]; PO Box 497, 30-36 Newport Road, Cardiff CF24 0DE (GB).

(72) Inventors: **MCGUIGAN, Christopher**; Llywn Glas, Peterson super Ely CF5 6LG (GB). **PERTUSATI, Fabrizio**; 11 Landmark Place, Churchill Way, Cardiff CF10 2HS (GB).

(74) Agents: **HOWARD, Paul Nicholas** et al.; Carpmaels & Ransford LLP, One Southampton Row, London WC1B 5HA (GB).

(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, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, 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, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

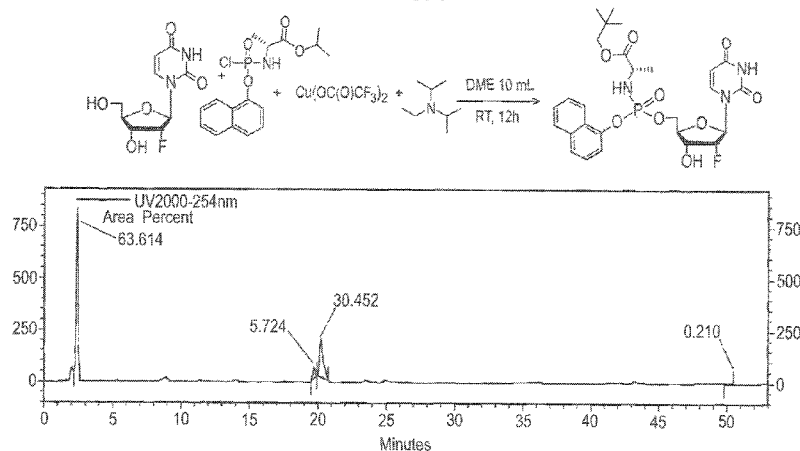
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, 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))

(54) Title: PROCESS FOR PREPARING NUCLEOSIDE PRODRUGS

FIG. 5



(57) Abstract: A process for preparing phosphoramidates of nucleosides where a desired enantiomer, having regard to the asymmetric chiral centre of the phosphorus atom P, is provided in an enriched amount. The process comprises admixing a nucleoside with a phosphorochloridate in the presence of a catalyst comprising a metal salt selected from the group consisting of salts of Cu, Fe, La and Yb.