



(51) International Patent Classification:

C12P 19/34 (2006.01) *C01F 1/00* (2006.01)
C12Q 1/6844 (2018.01) *C01F 5/00* (2006.01)
C07H 23/00 (2006.01) *C01F 11/00* (2006.01)
C07H 19/10 (2006.01) *C07H 1/00* (2006.01)
C07H 19/20 (2006.01)

(21) International Application Number:

PCT/GB2022/052132

(22) International Filing Date:

16 August 2022 (16.08.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2111742.9 16 August 2021 (16.08.2021) GB

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(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, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, 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.

(54) Title: NOVEL NUCLEOTIDE COMPLEXES CAPABLE OF AN IMPROVED DNA YIELD

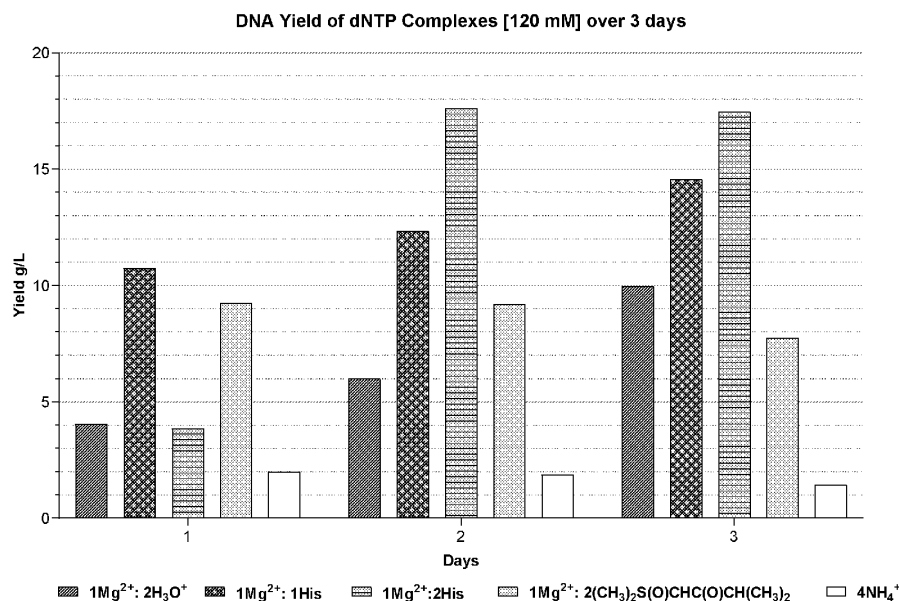


Fig. 6

(57) **Abstract:** The present invention relates to novel nucleotide complexes which enhance the enzymatic production of DNA. The nucleotide complexes includes a divalent cation at a ratio of 0.2-1.5 divalent cations per nucleotide, whilst monovalent ions (other than hydrogen or hydronium ions from any solvent) are minimal. The nucleotide complexes have desirable properties for the synthesis of deoxyribonucleic acid (DNA), in particular cell-free enzymatic synthesis of DNA, preferably on a large or industrial scale. Further, the invention includes improved processes for preparing said nucleotide complexes. Further complexes are disclosed which possess unique properties in accelerating DNA synthesis at higher concentrations, these complexes also containing zwitterion molecules.

[Continued on next page]



(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).

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