

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

(19) World Intellectual Property
Organization
International Bureau



(10) International Publication Number
WO 2023/186757 A1

(43) International Publication Date
05 October 2023 (05.10.2023)

(51) International Patent Classification:

A61K 9/51 (2006.01) *A61K 47/62* (2017.01)
A61K 31/7088 (2006.01) *A61K 47/69* (2017.01)
A61K 47/54 (2017.01) *A61K 9/48* (2006.01)

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, ME, 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).

(21) International Application Number:

PCT/EP2023/057752

(22) International Filing Date:

27 March 2023 (27.03.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

22165385.0 30 March 2022 (30.03.2022) EP

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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, MG, MK, MN, MU, 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, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ,

Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

Published:

— *with international search report (Art. 21(3))*

(54) Title: FORMULATIONS COMPOSED OF CATIONIC LIPIDS AND POLY(LACTIC-CO-GLYCOLIC ACID) FOR THE DELIVERY OF POLYNUCLEOTIDES INTO CELLS

(57) Abstract: The present invention refers to a polynucleotide delivery particle, comprising a) at least one poly(lactic-co-glycolide); b) at least one cationic surfactant; c) at least one polynucleotide; and d) optionally at least one additive; wherein the poly(lactic-co-glycolide) has a weight average molecular weight Mw of 1000 to 9500 g/mol measured via gel permeation chromatography using polystyrene standards and chloroform. Furthermore, the present invention pertains to a method of forming the polynucleotide delivery particle according to the present invention, wherein the particle is formed by a nanoprecipitation or nanoemulsion method. Moreover, the present invention refers to an oral drug delivery composition or a parenteral drug delivery composition comprising at least one polynucleotide delivery particle according to the present invention as well as their use as a medicament.



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