

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
03 October 2024 (03.10.2024)



(10) International Publication Number
WO 2024/199448 A1

(51) International Patent Classification:

A61K 9/20 (2006.01) A61K 9/24 (2006.01)

(21) International Application Number:

PCT/CN2024/084829

(22) International Filing Date:

29 March 2024 (29.03.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

PCT/CN2023/085458

31 March 2023 (31.03.2023) CN

202410351921.6 25 March 2024 (25.03.2024) CN

(71) Applicant: **TRIASTEK, INC.** [CN/CN]; No. 24 Building,
Max Science Business Park, 99 Lize Road, Nanjing, Jiangsu
211112 (CN).

(72) Inventors: **ZUO, Xianghao**; No. 24 Building, Max Science
Business Park, 99 Lize Road, Nanjing, Jiangsu 211112
(CN). **CHI, Huan**; No. 24 Building, Max Science Business
Park, 99 Lize Road, Nanjing, Jiangsu 211112 (CN). **DENG,
Feihuang**; No. 24 Building, Max Science Business Park,
99 Lize Road, Nanjing, Jiangsu 211112 (CN). **LIU, Xin**;
No. 24 Building, Max Science Business Park, 99 Lize Road,
Nanjing, Jiangsu 211112 (CN). **CHENG, Senping**; No. 24
Building, Max Science Business Park, 99 Lize Road, Nan-
jing, Jiangsu 211112 (CN). **LI, Xiaoling**; 2511 Valentano
Dr., Dublin, California 94568 (US).

(74) Agent: **JUN HE LAW OFFICES**; 20/F, China Resources
Building 8 Jianguomenbei Avenue, Dongcheng District,
Beijing 100005 (CN).

(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,
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).

Published:

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

(54) Title: ORAL DRUG DOSAGE FORMS FOR COLON DELIVERY AND METHODS OF USE AND MAKING THEREOF

(57) Abstract: Provided, in some aspects, is directed to oral drug dosage forms configured to release a drug at a desired location in the colon of an individual. As provided in certain aspects, the oral drug dosage forms comprise a drug component comprising an erodible material admixed with the drug, and a delay component not admixed with the drug, wherein the delay component is configured to prevent release of the drug from the drug component until the oral drug dosage form reaches the colon of the individual following administration. In other aspects, the provided is directed to methods of designing, methods of making, such as using three-dimensional printing, and methods of treatment associated with the oral drug dosage forms described herein.



WO 2024/199448 A1