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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
27 August 2020 (27.08.2020)

WIPO | PCT

(10) International Publication Number
WO 2020/169992 A1

(51) International Patent Classification:
A61K 9/00 (2006.01) *A61K 47/02* (2006.01)
A61K 9/19 (2006.01) *A61K 47/44* (2017.01)
A61K 9/20 (2006.01) *A61K 31/192* (2006.01)
A61K 9/50 (2006.01)

(21) International Application Number:
PCT/GB2020/050423

(22) International Filing Date:
21 February 2020 (21.02.2020)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/809,307 22 February 2019 (22.02.2019) US

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

(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).

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

WO 2020/169992 A1

(54) Title: MINIMIZING AGGLOMERATION OF DRUG PARTICLE COATING MATERIAL DURING STORAGE TO STABILIZE DISINTEGRATION TIMES OF PHARMACEUTICAL PRODUCTS

(57) Abstract: Provided are pharmaceutical compositions and methods for preparing pharmaceutical compositions using solventless mixing methods. Excess coating material that is not bound to a coated API particle may be removed by a sieving process. Coating and dosing ratios can also be optimized to minimize the amount of excess unbound coating material. Specifically, a coating ratio and/or a dosing ratio can be used to minimize the residual amount of excess unbound coating material to minimize agglomeration of coating material during storage. In some embodiments, a pharmaceutical composition is provided, the pharmaceutical composition comprising: 65-85 % w/w API particles; 15-30 % w/w coating material coating the API particles; and 3-15 % w/w matrix surrounding the coated API particles, wherein the pharmaceutical composition comprises a disintegration time rate of less than 10 seconds for at least six months under storage conditions of at least 25°C and at least 60 % relative humidity.