



(51) International Patent Classification:

A61K 47/12 (2006.01) *A61K 47/30* (2006.01)
A61K 31/00 (2006.01) *A61K 45/00* (2006.01)
C08J 3/075 (2006.01)

(21) International Application Number:

PCT/US2023/020565

(22) International Filing Date:

01 May 2023 (01.05.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/337,246 02 May 2022 (02.05.2022) US
 63/394,107 01 August 2022 (01.08.2022) US

(71) Applicant: ENTREGA INC. [US/US]; 6 Tide Street Suite 400, Boston, Massachusetts 02110 (US).

(72) Inventors: HOLMES-FARLEY, S. Randy; 20 Norfolk Road, Arlington, Massachusetts 02476 (US). JANTZ, John; 64 Gray St., Arlington, Massachusetts 02476 (US). GRAHAM, Jacob Matthew; 151 Evarts St., Newport,

Rhode Island 02840 (US). BONNER, Daniel; 22 Osprey Rd, Sharon, Massachusetts 02067 (US).

(74) Agent: COTTON, Abigail; c/o Bryan Cave Leighton Paisner LLP, 211 North Broadway, Suite 3600, St. Louis, Missouri 63102 (US).

(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,

(54) Title: ORAL DOSAGE FORM WITH IONICALLY CHARGEABLE HYDROGEL FOR DELIVERY OF ACTIVE AGENT

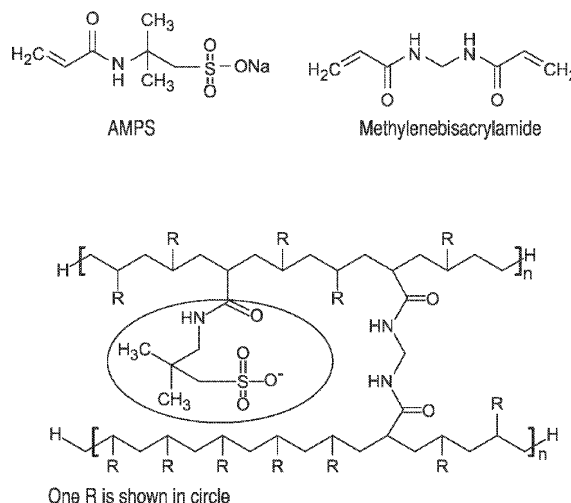


FIG. 1

(57) Abstract: The present disclosure provides, *inter alia*, a pharmaceutically acceptable oral dosage form comprising an ionically chargeable hydrogel and a protective coating for delivery of an ionically chargeable active agent to an intestinal site. Also provided are methods for treatment using the pharmaceutically acceptable oral dosage form disclosed herein.

[Continued on next page]

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))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*