

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

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
10 May 2012 (10.05.2012)

(10) International Publication Number
WO 2012/059724 A1

PCT

(51) International Patent Classification:
A61K 9/20 (2006.01) *A61K 31/765* (2006.01)
A61P 1/10 (2006.01)

(21) International Application Number:
PCT/GB2011/001560

(22) International Filing Date:
4 November 2011 (04.11.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
1018647.6 4 November 2010 (04.11.2010) GB
61/412,109 10 November 2010 (10.11.2010) US
1104049.0 9 March 2011 (09.03.2011) GB
1107626.2 6 May 2011 (06.05.2011) GB

(71) Applicant (for all designated States except US):
NORGINE BV [NL/NL]; Hogehilweg 7, NL-1101 CA
Amsterdam Zuid-Oost (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **STEIN, Peter** [GB/GB]; Norgine Ltd, Norgine House, Widewater Place, Harefield, Uxbridge, Middlesex UB9 6NS (GB). **COX, Ian** [GB/GB]; Norgine Ltd, New Road, Tir-y-Berth, Hengoed, Mid-Glamorgan CF82 8SJ (GB). **SMITH, Samuel** [GB/GB]; Norgine Ltd, New Road, Tir-y-Berth, Hengoed, Mid-Glamorgan CF82 8SJ (GB). **JONES, Leighton** [GB/GB]; Norgine Ltd, New Road, Tir-y-Berth, Hengoed, Mid-Glamorgan CF82 8SJ (GB). **PLESSL, Jörg** [GB/GB]; Norgine Ltd, New Road, Tir-y-Berth, Hengoed, Mid-Glamorgan CF82 8SJ (GB).

(74) Agents: **BRADY, Paul, Andrew** et al.; ABEL & IM-RAY, 20 Red Lion Street, London WC1R 4PQ (GB).

(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, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

Published:

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

(54) Title: FORMULATIONS COMPRISING POLYETHYLENE GLYCOL

(57) Abstract: The present invention concerns a solid formulation for oral administration as a solid comprising polyethylene glycol and a further solid such as mannitol. The formulation may be used to prevent gastrointestinal disorders such as constipation in healthy subjects. In some embodiments, the solid formulation is chewable or suckable.



WO 2012/059724 A1