PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : A61K 47/14, 47/06, 9/127, 9/107 — A1

(11) International Publication Number: WO 98/00169

(43) International Publication Date: 8 January 1998 (08.01.98)

(21) International Application Number: PCT/GB97/01775

(22) International Filing Date: 2 July 1997 (02.07.97)

(30) Priority Data:
9613858 .1 2 July 1996 (02.07.96) GB

(71) Applicant *(for all designated States except US)*: CORTECS LIMITED [GB/GB]; The Old Blue School, Lower Square, Isleworth, Middlesex TW7 6RL (GB). PLS CHECK PCT/IB/306

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: NEW, Roger, Randal, Charles [GB/GB]; Leinster Mansions, Flat 10, 1 Langland Gardens, Hampstead, London NW3 6QB (GB). KIRBY, Christopher, John [GB/GB]; 95 Oxford Road, Wokingham, Berkshire RG41 2YL (GB). PLS CHECK PF8

(74) Agents: CHAPMAN, Paul, William et al.; Kilburn & Strode, 30 John Street, London WC1N 2DD (GB).

(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

Published

With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: HYDROPHOBIC PREPARATIONS CONTAINING MEDIUM CHAIN MONOGLYCERIDES

(57) Abstract

Hydrophobic preparations which are useful as, among other things, pharmaceutical delivery systems comprise: (i) an oil phase comprising one or more medium chain monoglycerides, such as Akoline MCM™; (ii) at least one amphiphile, preferably including a phospholipid such as phosphatidyl choline; and (iii) a hydrophilic species, which may be a protein such as insulin or calcitonin or another macromolecule, solubilised or otherwise dispersed in the one or more glycerides. (The hydrophilic species is one that is not normally soluble in the glycerides).