0 4 JUN 2002
20020033173

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

(19) World Intellectual Property Organization
International Bureau

162162

(43) International Publication Date
14 June 2001 (14.06.2001)

PCT

(10) International Publication Number
WO 01/41785 A3

(51) International Patent Classification[7]: A61K 38/46, 38/47, A23K 1/165, A61P 31/00, 33/00

(21) International Application Number: PCT/US00/33466

(22) International Filing Date: 8 December 2000 (08.12.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/169,935 10 December 1999 (10.12.1999) US

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US 60/169,935 (CON)
Filed on 10 December 1999 (10.12.1999)

(71) Applicant *(for all designated States except US)*: **CHEMGEN CORPORATION** [US/US]; 211 Perry Parkway, Gaithersburg, MD 20877 (US).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **ANDERSON, David, M.** [US/US]; 13601 Cherrydale Drive, Rockville, MD 20850 (US). **LIU, Lin** [US/US]; 13622 Tine View Lane, Rockville, MD 20850 (US). **HSIAO, Humg-Yu** [US/US]; 1719 Glastonberry Road, Rockville, MD 20850 (US). **FODGE, Douglas, W.** [US/US]; 7308 Righters Mill Road, Derwood, MD 20855 (US).

(74) Agent: **BENT, Stephen, A.**; Foley & Lardner, 3000 K. Street, NW, Suite 500, Washington, DC 20007 (US).

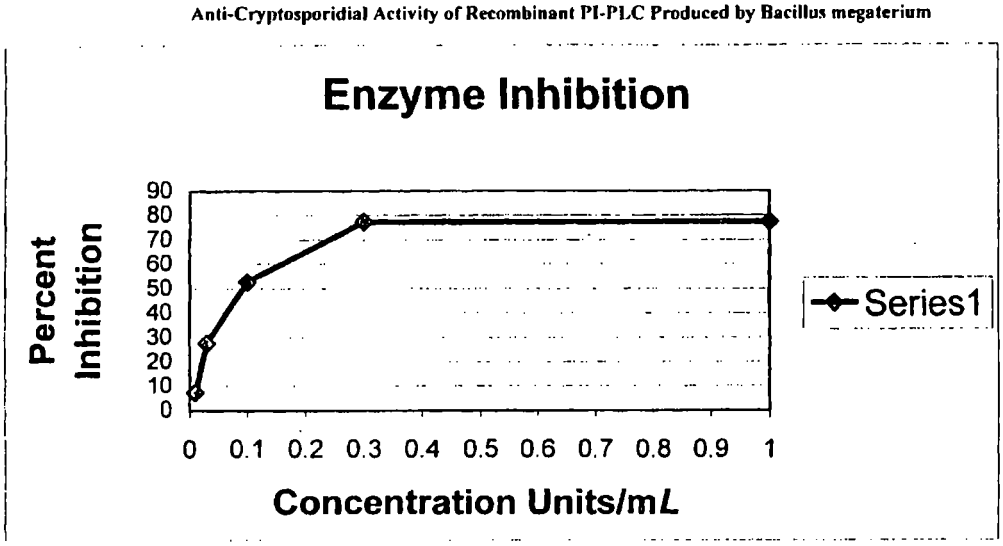
(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:
with international search report

[Continued on next page]

(54) **Title:** ENZYME TREATMENT FOR INFECTION



(57) **Abstract:** Enzymes of a particular class, characterized by the ability to cleave a linkage that effects release of a cell-surface protein or carbohydrate, which does not contain an anti-infection agent, display significant anti-infectious activity. Upon oral administration, these enzymes are effective, for example, in the treatment of digestive tract infections in humans and in animals. In the latter, there are benefits of significantly improved growth rate, feed efficiency, and overall health.

WO 01/41785 A3

ACTION

(88) Date of publication of the international search report:
24 January 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.