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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
6 February 2003 (06.02.2003)

PCT

(10) International Publication Number
WO 03/010298 A1

(51) International Patent Classification[7]: C12N 1/20, A61K 35/74, A61P 29/00

(21) International Application Number: PCT/IE02/00111

(22) International Filing Date: 26 July 2002 (26.07.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

01/0705	26 July 2001 (26.07.2001)	IE
01/0708	26 July 2001 (26.07.2001)	IE
01/0707	26 July 2001 (26.07.2001)	IE
01/0702	26 July 2001 (26.07.2001)	IE
01/0701	26 July 2001 (26.07.2001)	IE

(71) Applicant *(for all designated States except US)*: **ALIMENTARY HEALTH LIMITED** [IE/IE]; Simla Villa, Passage West, County Cork (IE).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **COLLINS, John, Kevin** [IE/IE]; Spur Hill, Doughcloyne, County Cork (IE). **O'SULLIVAN, Gerald, Christopher** [IE/IE]; Ballinveltig, Curraheen Road, Bishopstown, Cork (IE). **O'MAHONY, Liam** [IE/IE]; 41 Maryville Estate, Ballintemple, County Cork (IE). **SHANAHAN, Fergus** [IE/IE]; Seafort, Fort Cliff, Kinsale, County Cork (IE). **KIELY, Barry** [IE/IE]; Simla Villa, Passage West, County Cork (IE).

(74) Agents: **O'BRIEN, John, A.** et al.; John A. O'Brien & Associates, 3rd floor, Duncairn House, 14 Carysfort Avenue, Blackrock, County Dublin (IE).

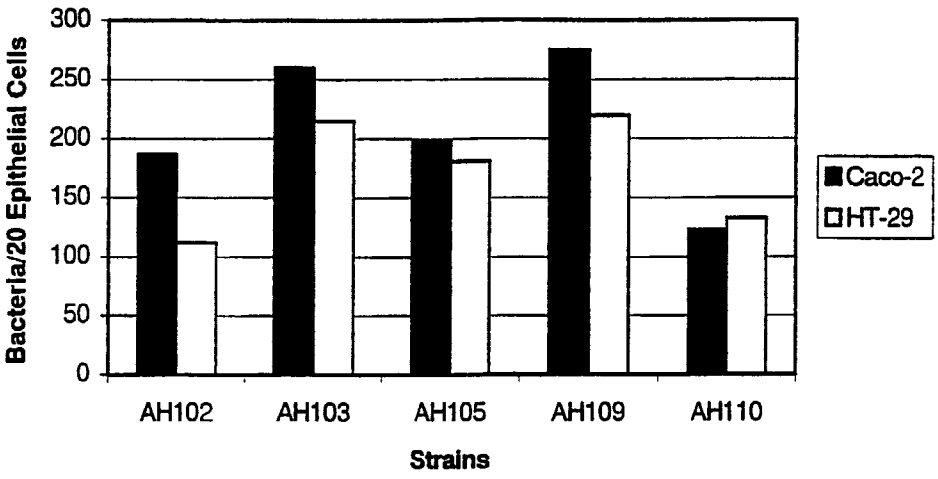
(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT,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

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

Published:
— *with international search report*

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.

(54) Title: "PROBIOTIC LACTOBACILLUS SALIVARIUS STRAINS



(57) Abstract: A Loctabacillus salivarius strain,AHlO2, AHlO3, AHlO5, AHlO9 or AHllO or mutants or variants thereof are useful in the prophylaxis and/or treatment of inflammatory activity especially undesirable gastrointestinal inflammatory activity, such as inflammatory bowel disease or irritable bowel syndrome.

WO 03/010298 A1