

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

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
30 September 2010 (30.09.2010)

PCT

(10) International Publication Number  
**WO 2010/111070 A1**

(51) International Patent Classification:

A23L 1/015 (2006.01) A23L 1/27 (2006.01)  
A23L 1/221 (2006.01) A23L 2/58 (2006.01)

(21) International Application Number:

PCT/US2010/027477

(22) International Filing Date:

16 March 2010 (16.03.2010)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/163,688 26 March 2009 (26.03.2009) US  
61/163,683 26 March 2009 (26.03.2009) US

(71) Applicant (for all designated States except US): **ABBOTT LABORATORIES** [US/US]; Dept 377/AP6P-1, 100 Abbott Park Road, Abbott Park, IL 60064 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **JOHNS, Paul, W.** [US/US]; 3115 Rightmire Blve, Columbus, OH 43221 (US). **MAZER, Terrence, B.** [US/US]; 7032 Cunningham Drive, NewAlbany, OH 43054 (US).

(74) Agent: **WINTER, William, J.**; Abbott Nutrition a Division of Abbott Laboratories, 625 Cleveland Avenue, Dept 108140 DS1, Columbus, OH 43215 (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, 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, RO, RS, RU, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (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, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, 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))

(54) Title: NUTRITIONAL COMPOSITION COMPRISING CURCUMINOIDS AND METHODS OF MANUFACTURE

(57) Abstract: Disclosed are nutritional compositions and methods for preparing the compositions, comprising fat, protein, and carbohydrate, including a combination of curcumin, demethoxycurcumin, and bisdemethoxycurcumin, which combination is solubilized in a polar oil having an HLB value of from about 0.7 to about 14 wherein the weight ratio of the bisdemethoxycurcumin to the curcumin is from about 1:1 to about 1:7 and the weight ratio of the bisdemethoxycurcumin to the demethoxycurcumin is from about 1:1 to about 1:2.5. The composition provides a selected ratio of curcuminoids having improved biological activity, bioavailability, and reduced color impact.



WO 2010/111070 A1