

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
15 September 2011 (15.09.2011)

PCT

(10) International Publication Number
WO 2011/112913 A1

(51) International Patent Classification:
A01N 43/04 (2006.01) *A61K 31/70* (2006.01)

(21) International Application Number:
PCT/US2011/028068

(22) International Filing Date:
11 March 2011 (11.03.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/313,630 12 March 2010 (12.03.2010) US

(71) Applicant (for all designated States except US):
MARTEK BIOSCIENCES CORPORATION
[US/US]; 6480 Dobbin Road, Columbia, MD 21045
(US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ZIMMER, John, Paul** [US/US]; 6750 Bugle Court, Boulder, CO 80301 (US). **BUTT, Christopher, Michael** [US/US]; 2966 Dickens Street, Erie, CO 80516 (US).

(74) Agents: **KIM, Judith U.** et al.; Sterne, Kessler, Goldstein & Fox PLLC, 1100 New York Avenue, N.W., Washington, DC 20005-3934 (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, LR, LS, MW, MZ, NA, 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).

Published:

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

(54) Title: MATERNAL SIALIC ACID SUPPLEMENTATION

(57) Abstract: The invention provides methods and compositions for improving fetal and child health and development through nutritional supplementation with, for example, sialic acid. Sialic acid can be provided to a female before, during and/or after pregnancy to improve the health and development of a fetus and/or child. The sialic acid can be in a variety of forms in the supplements.



WO 2011/112913 A1