

Title (en)
PURIFICATION OF DHA CONTAINING OILS

Title (de)
REINIGUNG VON DHA-HALTIGEN ÖLEN

Title (fr)
PURIFICATION D'HUILES CONTENANT DU DHA

Publication
EP 3585369 A4 20200826 (EN)

Application
EP 18757985 A 20180221

Priority
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Abstract (en)
[origin: WO2018156596A1] The various examples presented herein are directed to an oil composition comprising at least one carotenoid in an amount greater than 50 mg/kg by weight of the oil composition; a docosahexaenoic acid (DHA) content greater than about 25% of the total weight of fatty acids present in the oil composition; and less than 80 ppb of trans-2-pentanal (t-2-P), less than 30 ppb of hexanal, less than 15 ppb heptanal, or less 1500 ppb of dimethyldisulfide (DMDS).

IPC 8 full level
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Citation (search report)

- [I] US 2001025114 A1 20010927 - BIJL HENDRIK LOUIS [NL], et al
- [XI] REEM ABUZAYTOUN ET AL: "Oxidative Stability of Algal Oils As Affected by Their Minor Components", JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol. 54, no. 21, 26 September 2006 (2006-09-26), US, pages 8253 - 8260, XP055714942, ISSN: 0021-8561, DOI: 10.1021/jf061047s
- [XA] SPROSTON MOLLY J ET AL: "Enzymatic Modification of Anhydrous Milkfat with n-3 and n-6 Fatty Acids for Potential Use in Infant Formula: Comparison of Methods", JOURNAL OF THE AMERICAN OIL CHEMISTS' SOCIETY (JAOCS), SPRINGER, DE, vol. 93, no. 2, 8 December 2015 (2015-12-08), pages 251 - 265, XP035947533, ISSN: 0003-021X, [retrieved on 20151208], DOI: 10.1007/S11746-015-2763-8
- [XA] YEISER MICHAEL ET AL: "Growth and tolerance of infants fed formula with a new algal source of docosahexaenoic acid: Double-blind, randomized, controlled trial", PROSTAGLANDINS LEUKOTRIENES AND ESSENTIAL FATTY ACIDS, vol. 115, December 2016 (2016-12-01), pages 89 - 96, XP029825315, ISSN: 0952-3278, DOI: 10.1016/J.PLEFA.2016.09.001
- [A] ZOU LONG ET AL: "Oxidative stability of structured lipid-based infant formula emulsion: Effect of antioxidants", FOOD CHEMISTRY, ELSEVIER LTD, NL, vol. 178, 21 January 2015 (2015-01-21), pages 1 - 9, XP029142129, ISSN: 0308-8146, DOI: 10.1016/J.FOODCHEM.2015.01.073
- [A] HONOLD PHILIPP J ET AL: "Potential seaweed-based food ingredients to inhibit lipid oxidation in fish-oil-enriched mayonnaise", EUROPEAN FOOD RESEARCH AND TECHNOLOGY, SPRINGER BERLIN HEIDELBERG, BERLIN/HEIDELBERG, vol. 242, no. 4, 10 October 2015 (2015-10-10), pages 571 - 584, XP035868087, ISSN: 1438-2377, [retrieved on 20151010], DOI: 10.1007/S00217-015-2567-Y
- [A] F.V.K. YOUNG: "The Chemical & Physical Properties of Crude Fish Oils for Refiners & Hydrogenators", FISH OIL BULLETIN NO. 18, 1 June 1986 (1986-06-01), pages 1 - 18, XP055106916, Retrieved from the Internet <URL:http://www.ifo.net/system/files/FOB17.PDF> [retrieved on 20140311]
- [A] CARLOS MACKU ET AL: "Headspace volatile compounds formed from heated corn oil and corn oil with glycine", JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol. 39, no. 7, 1 July 1991 (1991-07-01), US, pages 1265 - 1269, XP055715147, ISSN: 0021-8561, DOI: 10.1021/jf00007a014
- See references of WO 2018156596A1

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