nutrasource

Pharmaceutical and Nutraceutical Services

PRODUCT TESTING REPORT

Algae Oil DHA LOT# BY210907

Date received: 04-Jan-2022

NDI#: 0812022

Analysis for:

Source-Omega LLC

260 E. Forest Ave.

South Lebanon, OH 45065

Date: 18-Jan-2022

Kevin Yan, M.Sc.
Director,
Certification & Analytics
Dated: 18-Jan-2022

Hyun Ah Kim
Customer Care Manager,
Certification & Analytics
Dated: 18-Jan-2022

Essential Fatty Acid Profile

Fatty Acid as TG		mg per mL	%
C4:0	Butyric Acid	0.00	0.0
C6:0	Caproic Acid	0.03	0.0
C8:0	Caprylic Acid	0.04	0.0
C10:0	Capric Acid	0.30	0.0
C12:0	Lauric Acid	0.85	0.1
C14:0	Myristic Acid	8.36	0.9
C14:1	Myristolic Acid	0.05	0.0
C15:0	Pentadecanoic Acid	0.56	0.1
C16:0	Palmitic Acid	184.16	19.9
C16:1	Palmitoleic Acid	3.38	0.4
C18:0	Stearic Acid	11.16	1.2
C18:1	Oleic Acid	23.38	2.5
C18:2N6	Linoleic Acid	12.73	1.4
C18:3N6	Gamma-linolenic Acid	1.96	0.2
C18:3N3	Alpha-linolenic Acid	1.87	0.2
C18:4N3	Stearidonic Acid	3.43	0.4
C20:0	Arachidic Acid	1.79	0.2
C20:1	Eicosenoic Acid	0.13	0.0
C20:2N6	Eicosadienoic Acid	0.17	0.0
C20:3N6	Dihomo-gamma-linolenic Acid	9.88	1.1
C20:4N6	Arachidonic Acid	1.79	0.2
C20:3N3	Eicosatrienoic Acid	0.73	0.1
C20:4N3	Eicosatetraenoic Acid	8.03	0.9
C20:5N3 (EPA)	**Eicosapentaenoic Acid**	**6.31**	**0.7**
C22:0	Behenic Acid	1.48	0.2
C22:1	Cetoleic Acid	0.00	0.0
C22:2N6	Docosadienoic Acid	0.00	0.0
C22:4N6	Adrenic Acid	0.09	0.0
C22:5N6	Docosapentaenoic Acid (n-6)	122.51	13.3
C22:5N3	Docosapentaenoic Acid (n-3)	1.25	0.1
C22:6N3 (DHA)	**Docosahexaenoic Acid**	**514.07**	**55.7**
C24:0	Lignoceric Acid	0.00	0.0
C24:1	Nervonic Acid	2.35	0.3
Total Fatty Acids		**923.73**	**100.0**

Saturated	**1.00**	**22.6**
Monounsaturated	**208.73**	**3.2**
Polyunsaturated	**29.29**	**74.1**

Omega-3	**535.69**	**58.0**
Omega-6	**149.13**	**16.1**

Modified AOCS Official Method Ce 1b-89

Microbial Analysis

Component	Analytical Method	Specification	Result	Units	Meets Specification
Total Aerobic Plate Count	USP <2021/2022>	<100,000	<10	cfu/gram	Yes
Yeast and Mould	USP <2021/2022>	<10,000	<10	cfu/gram	Yes
E.coli	USP <2021/2022>	Negative	Negative	Positive/Negative	Yes
Salmonella	USP <2021/2022>	Negative	Negative	Positive/Negative	Yes
Staphylococcus aureus	USP <2021/2022>	Negative	Negative	Positive/Negative	Yes
Pseudomonas aeruginosa	USP <2021/2022>	Negative	Negative	Positive/Negative	Yes

Oxidation Analysis

Component	Analytical Method	Specification	Result	Units	Meets Specification
Anisidine Value (AOCS)	AOCS Cd 18-90	<= 20	4.23		Yes
Peroxide Value	AOCS Cd 8b-90	<= 5	1.29	meq/kg	Yes
Total Oxidation	Calculation	< 26	6.91		Yes

Heavy Metals

Component	Analytical Method	Specification	Result	Units	Meets Specification
Total Arsenic	ICP-MS	< 0.1	< 0.030	ppm	Yes
Cadmium	ICP-MS	< 0.1	< 0.020	ppm	Yes
Lead	ICP-MS	< 0.1	< 0.020	ppm	Yes
Mercury	ICP-MS	< 0.1	< 0.020	ppm	Yes