



# ALGAE OIL OMEGA-3

*Schizochytrium sp.*

## Certificate of Analysis

### Essential Fatty Acid Profile (Retest)

Fatty Acid as TG		mg per 2mL	%
C4:0	Butyric Acid	0.00	0.00
C6:0	Caproic Acid	0.09	0.01
C8:0	Caprylic Acid	0.20	0.01
C10:0	Capric Acid	0.50	0.03
C12:0	Lauric Acid	1.84	0.11
C14:0	Myristic Acid	16.59	0.95
C14:1	Myristolic Acid	0.10	0.01
C15:0	Pentadecanoic Acid	0.65	0.04
C16:0	Palmitic Acid	339.03	19.42
C16:1	Palmitoleic Acid	6.42	0.37
C18:0	Stearic Acid	17.79	1.02
C18:1	Oleic Acid	17.06	0.98
C18:2N6	Linoleic Acid	2.02	0.12
C18:3N6	Gamma-linolenic Acid	3.85	0.22
C18:3N3	Alpha-linolenic Acid	3.77	0.22
C18:4N3	Stearidonic Acid	7.27	0.42
C20:0	Arachidic Acid	3.25	0.19
C20:1	Eicosenoic Acid	0.09	0.01
C20:2N6	Eicosadienoic Acid	0.17	0.01
C20:3N6	Dihomo-gamma-linolenic Acid	16.36	0.94
C20:4N6	Arachidonic Acid	3.55	0.20
C20:3N3	Eicosatrienoic Acid	0.94	0.05
C20:4N3	Eicosatetraenoic Acid	15.86	0.91
<b>C20:5N3 (EPA)</b>	<b>Eicosapentaenoic Acid</b>	<b>12.70</b>	<b>0.73</b>
C22:0	Behenic Acid	2.49	0.14
C22:1	Cetoleic Acid	0.00	0.00
C22:2N6	Docosadienoic Acid	0.00	0.00
C22:4N6	Adrenic Acid	0.28	0.02
C22:5N6	Docosapentaenoic Acid (n-6)	234.66	13.44
C22:5N3	Docosapentaenoic Acid (n-3)	2.35	0.13
<b>C22:6N3 (DHA)</b>	<b>Docosahexaenoic Acid</b>	<b>1026.68</b>	<b>58.81</b>
C24:0	Lignoceric Acid	0.90	0.05
C24:1	Nervonic Acid	5.76	0.33
<b>Total Fatty Acids</b>		<b>1745.72</b>	<b>100.0</b>
<b>Saturated</b>		<b>383.32</b>	<b>21.96</b>
<b>Monounsaturated</b>		<b>29.44</b>	<b>1.69</b>
<b>Polyunsaturated</b>		<b>1332.96</b>	<b>76.36</b>
<b>Omega-3</b>		<b>1072.07</b>	<b>61.41</b>
<b>Omega-6</b>		<b>260389</b>	<b>14.94</b>

Method: AOCS Ce 1i-07



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#### Microbial Analysis

Component	Analytical Method	Specification	Result	Units	Meets Specification
Total Aerobic Plate Count	USP <2021/2022>	<100000	<10	cfu/gram	Yes
Yeast and Mould	USP <2021/2022>	<10000	<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 <61/62>	Negative	Negative	Positive/Negative	Yes

#### Heavy Metals

Component	Analytical Method	Specification	Result	Units	Meets Specification
Total Arsenic	USP 233 (ICP-MS)	< 0.1	< 0.0300	ppm	Yes
Cadmium	USP 233 (ICP-MS)	< 0.1	< 0.0200	ppm	Yes
Lead	USP 233 (ICP-MS)	< 0.1	< 0.0200	ppm	Yes
Mercury	USP 233 (CVAA)	< 0.1	< 0.0200	ppm	Yes



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## **Certificate of Analysis**

### **Oxidation Analysis**

<b>Component</b>	<b>Analytical Method</b>	<b>Specification</b>	<b>Result</b>	<b>Units</b>	<b>Meets Specification</b>
<b>Anisidine Value</b>	AOCS Cd 18-90	$\leq 20$	5.73		Yes
<b>Peroxide Value (Retest)</b>	AOCS Cd 8b-90	$\leq 5$	0.4	meq/kg	Yes
<b>Total Oxidation</b>	Calculation (with Retest Result)	$< 26$	6.53		Yes