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# ALGAE OIL OMEGA-3

*Schizochytrium sp.*

## Certificate of Analysis

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Pharmaceutical and Nutraceutical Services

### Essential Fatty Acid Profile

Fatty Acid as TG		mg per g	%
C4:0	Butyric Acid	0.00	0.0
C6:0	Caproic Acid	0.19	0.0
C8:0	Caprylic Acid	0.04	0.0
C10:0	Capric Acid	0.21	0.0
C12:0	Lauric Acid	0.04	0.0
C14:0	Myristic Acid	8.12	0.9
C14:1	Myristolic Acid	0.54	0.1
C15:0	Pentadecanoic Acid	0.31	0.0
C16:0	Palmitic Acid	183.78	20.0
C16:1	Palmitoleic Acid	3.10	0.3
C18:0	Stearic Acid	10.19	1.1
C18:1	Oleic Acid	7.69	0.8
C18:2N6	Linoleic Acid	0.76	0.1
C18:3N6	Gamma-linolenic Acid	1.76	0.2
C18:3N3	Alpha-linolenic Acid	1.80	0.2
C18:4N3	Stearidonic Acid	3.37	0.4
C20:0	Arachidic Acid	1.83	0.2
C20:1	Eicosenoic Acid	0.09	0.0
C20:2N6	Eicosadienoic Acid	0.07	0.0
C20:3N6	Dihomo-gamma-linolenic Acid	9.60	1.0
C20:4N6	Arachidonic Acid	1.70	0.2
C20:3N3	Eicosatrienoic Acid	0.35	0.0
C20:4N3	Eicosatetraenoic Acid	8.30	0.9
<b>C20:5N3 (EPA)</b>	<b>Eicosapentaenoic Acid</b>	<b>6.40</b>	<b>0.7</b>
C22:0	Behenic Acid	1.36	0.1
C22:1	Cetoleic Acid	0.00	0.0
C22:2N6	Docosadienoic Acid	0.00	0.0
C22:4N6	Adrenic Acid	0.12	0.0
C22:5N6	Docosapentaenoic Acid (n-6)	147.27	17.9
C22:5N3	Docosapentaenoic Acid (n-3)	1.19	0.1
<b>C22:6N3 (DHA)</b>	<b>Docosahexaenoic Acid</b>	<b>514.66</b>	<b>54.3</b>
C24:0	Lignoceric Acid	0.00	0.0
C24:1	Nervonic Acid	1.96	0.2
<b>Total Fatty Acids</b>		<b>917.40</b>	<b>100.0</b>

<b>Saturated</b>	<b>206.07</b>	<b>22.5</b>
<b>Monounsaturated</b>	<b>13.38</b>	<b>1.5</b>
<b>Polyunsaturated</b>	<b>697.95</b>	<b>76.1</b>

<b>Omega-3</b>	<b>556.67</b>	<b>60.6</b>
<b>Omega-6</b>	<b>141.28</b>	<b>15.4</b>

Modified AOCS Official Method Ce 1b-89



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### 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

### 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



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## Oxidation Analysis

Component	Analytical Method	Specification	Result	Units	Meets Specification
Anisidine Value (AOCS)	AOCS Cd 18-90	$\leq 20$	2.6		Yes
Peroxide Value	AOCS Cd 8b-90	$\leq 5$	0.21	meq/kg	Yes
Total Oxidation	Calculation	$< 26$	3.02		Yes