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# ALGAE OIL OMEGA-3

*Schizochytrium sp.*

## Certificate of Analysis

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### Essential Fatty Acid Profile

Fatty Acid as TG		mg per g	%
C4:0	Butyric Acid	0.00	0.0
C6:0	Caproic Acid	0.00	0.0
C8:0	Caprylic Acid	0.05	0.0
C10:0	Capric Acid	0.29	0.0
C12:0	Lauric Acid	0.85	0.1
C14:0	Myristic Acid	8.36	0.9
C14:1	Myristolic Acid	0.06	0.0
C15:0	Pentadecanoic Acid	0.56	0.1
C16:0	Palmitic Acid	184.54	20.1
C16:1	Palmitoleic Acid	3.37	0.4
C18:0	Stearic Acid	10.91	1.2
C18:1	Oleic Acid	19.32	2.1
C18:2N6	Linoleic Acid	5.77	0.6
C18:3N6	Gamma-linolenic Acid	1.93	0.2
C18:3N3	Alpha-linolenic Acid	1.84	0.2
C18:4N3	Stearidonic Acid	3.38	0.4
C20:0	Arachidic Acid	1.81	0.2
C20:1	Eicosenoic Acid	0.17	0.0
C20:2N6	Eicosadienoic Acid	0.20	0.0
C20:3N6	Dihomo-gamma-linolenic Acid	10.20	1.1
C20:4N6	Arachidonic Acid	1.82	0.2
C20:3N3	Eicosatrienoic Acid	0.76	0.1
C20:4N3	Eicosatetraenoic Acid	8.08	0.9
<b>C20:5N3 (EPA)</b>	<b>Eicosapentaenoic Acid</b>	<b>6.34</b>	<b>0.7</b>
C22:0	Behenic Acid	1.44	0.2
C22:1	Cetoleic Acid	0.00	0.0
C22:2N6	Docosadienoic Acid	0.00	0.0
C22:4N6	Adrenic Acid	0.10	0.0
C22:5N6	Docosapentaenoic Acid (n-6)	123.57	13.5
C22:5N3	Docosapentaenoic Acid (n-3)	1.39	0.2
<b>C22:6N3 (DHA)</b>	<b>Docosahexaenoic Acid</b>	<b>517.03</b>	<b>56.4</b>
C24:0	Lignoceric Acid	0.00	0.0
C24:1	Nervonic Acid	2.46	0.3
<b>Total Fatty Acids</b>		<b>917.52</b>	<b>100.0</b>

<b>Saturated</b>	<b>208.81</b>	<b>22.8</b>
<b>Monounsaturated</b>	<b>25.38</b>	<b>2.8</b>
<b>Polyunsaturated</b>	<b>683.33</b>	<b>74.5</b>

<b>Omega-3</b>	<b>539.74</b>	<b>58.7</b>
<b>Omega-6</b>	<b>143.59</b>	<b>15.6</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	$\leq 20$	4.65		Yes
Peroxide Value	AOCS Cd 8b-90	$\leq 5$	3.3	meq/kg	Yes
Total Oxidation	Calculation	$< 26$	11.25		Yes