



# ALGAE OIL SOFTGELS OMEGA-3

*Schizochytrium sp.*

## Certificate of Analysis

### Essential Fatty Acid Profile

Fatty Acid as TG		mg per cap	%
C4:0	Butyric Acid	0.00	0.0
C6:0	Caproic Acid	0.04	0.0
C8:0	Caprylic Acid	0.08	0.0
C10:0	Capric Acid	0.21	0.0
C12:0	Lauric Acid	0.76	0.1
C14:0	Myristic Acid	5.75	1.0
C14:1	Myristolic Acid	0.06	0.0
C15:0	Pentadecanoic Acid	0.35	0.1
C16:0	Palmitic Acid	115.54	19.3
C16:1	Palmitoleic Acid	2.77	0.5
C18:0	Stearic Acid	6.30	1.1
C18:1	Oleic Acid	6.54	1.1
C18:2N6	Linoleic Acid	0.07	0.0
C18:3N6	Gamma-linolenic Acid	0.72	0.1
C18:3N3	Alpha-linolenic Acid	1.01	0.2
C18:4N3	Stearidonic Acid	1.81	0.3
C20:0	Arachidic Acid	1.56	0.3
C20:1	Eicosenoic Acid	0.00	0.0
C20:2N6	Eicosadienoic Acid	0.03	0.0
C20:3N6	Dihomo-gamma-linolenic Acid	0.96	0.2
C20:4N6	Arachidonic Acid	1.06	0.2
C20:3N3	Eicosatrienoic Acid	0.42	0.1
C20:4N3	Eicosatetraenoic Acid	5.40	0.9
<b>C20:5N3 (EPA)</b>	<b>Eicosapentaenoic Acid</b>	<b>4.53</b>	<b>0.8</b>
C22:0	Behenic Acid	0.92	0.2
C22:1	Cetoleic Acid	1.64	0.3
C22:2N6	Docosadienoic Acid	0.00	0.0
C22:4N6	Adrenic Acid	0.18	0.0
C22:5N6	Docosapentaenoic Acid (n-6)	68.84	11.5
C22:5N3	Docosapentaenoic Acid (n-3)	0.81	0.1
<b>C22:6N3 (DHA)</b>	<b>Docosahexaenoic Acid</b>	<b>366.50</b>	<b>61.1</b>
C24:0	Lignoceric Acid	0.00	0.0
C24:1	Nervonic Acid	1.81	0.3
<b>Total Fatty Acids</b>		<b>599.83</b>	<b>100.0</b>

<b>Saturated</b>	<b>131.51</b>	<b>21.9</b>
<b>Monounsaturated</b>	<b>12.83</b>	<b>2.1</b>
<b>Polyunsaturated</b>	<b>453.91</b>	<b>75.7</b>

<b>Omega-3</b>	<b>382.05</b>	<b>63.4</b>
<b>Omega-6</b>	<b>71.86</b>	<b>12.0</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	ICP-MS USP 232/233	< 0.1	< 0.0300	ppm	Yes
Cadmium	ICP-MS USP 232/233	< 0.1	< 0.0200	ppm	Yes
Lead	ICP-MS USP 232/233	< 0.1	< 0.0200	ppm	Yes
Mercury	ICP-MS USP 232/233	< 0.1	< 0.0200	ppm	Yes



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#### Oxidation Analysis

Component	Analytical Method	Specification	Result	Units	Meets Specification
Anisidine Value	AOCS Cd 18-90	$\leq 20$	7.77		Yes
Peroxide Value	AOCS Cd 8b-90	$\leq 5$	1.48	meq/kg	Yes
Total Oxidation	Calculation	$< 26$	10.73		Yes

#### Physical Properties

Component	Analytical Method	Specification	Result	Units	Meets Specification
Capsule Fill Weight	In-house	Not Applicable	0.6929	g/softgel	Not Applicable