



## PRODUCT TESTING REPORT

Dr. Matthew Omega 3 Fish Oil, Lot# FY220077

Date received: 14-Apr-2023

NDI#: 8282023

Analysis for:

**Iltervet LLC**


1309 Coffeen Avenue

Suite 1200

Sheridan, WY 82801

+1 321 766 8689

Date: 19-May-2023



---

Kevin Yan, M.Sc.  
Vice President,  
Certification & Analytics  
Dated: 19-May-2023



---

Hyun Ah Kim  
Program Manager,  
Certification & Analytics  
Dated: 19-May-2023

## Oxidation Analysis

Component	Analytical Method	Specification	Result	Units	Meets Specification
Acid Value	AOCS Cd 3d-63	$\leq 3$	0.38	mg KOH/g	Yes
Anisidine Value	AOCS Cd 18-90	$\leq 20$	14.13		Yes
Peroxide Value	AOCS Cd 8b-90	$\leq 5$	1.97	meq/kg	Yes
Total Oxidation	Calculation	$< 26$	18.07		Yes

## Essential Fatty Acid Profile

Fatty Acid as EE		mg per cap	%
C4:0	Butyric Acid	0.00	0.0
C6:0	Caproic Acid	0.10	0.0
C8:0	Caprylic Acid	0.05	0.0
C10:0	Capric Acid	0.03	0.0
C12:0	Lauric Acid	0.06	0.0
C14:0	Myristic Acid	1.43	0.1
C14:1	Myristolic Acid	0.03	0.0
C15:0	Pentadecanoic Acid	0.21	0.0
C16:0	Palmitic Acid	7.78	0.7
C16:1	Palmitoleic Acid	2.93	0.3
C18:0	Stearic Acid	20.95	1.9
C18:1	Oleic Acid	58.57	5.2
C18:2N6	Linoleic Acid	3.96	0.4
C18:3N6	Gamma-linolenic Acid	0.87	0.1
C18:3N3	Alpha-linolenic Acid	2.49	0.2
C18:4N3	Stearidonic Acid	6.95	0.6
C20:0	Arachidic Acid	12.26	1.1
C20:1	Eicosenoic Acid	58.76	5.2
C20:2N6	Eicosadienoic Acid	7.79	0.7
C20:3N6	Dihomo-gamma-linolenic Acid	5.26	0.5
C20:4N6	Arachidonic Acid	24.48	2.2
C20:3N3	Eicosatrienoic Acid	4.40	0.4
C20:4N3	Eicosatetraenoic Acid	28.65	2.6
<b>C20:5N3 (EPA)</b>	<b>Eicosapentaenoic Acid</b>	<b>413.51</b>	<b>36.8</b>
C22:0	Behenic Acid	8.97	0.8
C22:1	Cetoleic Acid	14.26	1.3
C22:2N6	Docosadienoic Acid	0.59	0.1
C22:4N6	Adrenic Acid	0.16	0.0
C22:5N6	Docosapentaenoic Acid (n-6)	15.10	1.3
C22:5N3	Docosapentaenoic Acid (n-3)	52.14	4.6
<b>C22:6N3 (DHA)</b>	<b>Docosahexaenoic Acid</b>	<b>278.31</b>	<b>24.8</b>
C24:0	Lignoceric Acid	4.56	0.4
C24:1	Nervonic Acid	1.70	0.2
<b>Total Fatty Acids</b>		<b>1123.27</b>	<b>100.0</b>

<b>Saturated</b>	<b>56.38</b>	<b>5.0</b>
<b>Monounsaturated</b>	<b>136.25</b>	<b>12.1</b>
<b>Polyunsaturated</b>	<b>887.65</b>	<b>79.0</b>

<b>Omega-3</b>	<b>829.43</b>	<b>70.0</b>
<b>Omega-6</b>	<b>58.21</b>	<b>5.2</b>

Method: AOCS Ce 1i-07

## Dioxin and Furan (PCDD/F) Toxicity Summary

WHO TEQ (2005) Dioxin and Furan (PCDD/F):	Upper Bound	0.165 ppt
	Lower Bound	0.0280 ppt

## Dioxin-like PCB Toxicity Summary

WHO TEQ (2005) Toxic Dioxin-Like PCBs	Upper Bound	1.84 ppt
	Lower Bound	1.84 ppt

## Dioxin, Furan & Dioxin-like PCB Toxicity Summary

WHO TEQs (2005) Total PCDD, PCDF & DL-PCB	Upper Bound	2.00 ppt
	Lower Bound	1.86 ppt

## Total PCB Summary (Method USEPA 1668 A/C)

Total PCBs	Upper Bound	10.7 ppb
	Lower Bound	10.7 ppb

## Marker PCB Analysis (Method USEPA 1668 A/C)

Total (ICES-7) <sup>1</sup> Marker PCBs:	Upper Bound	5.06 ppb
	Lower Bound	5.06 ppb

## Retest Results

### Dioxin and Furan (PCDD/F) Toxicity Summary

WHO TEQ (2005) Dioxin and Furan (PCDD/F):	Upper Bound	0.177 ppt
	Lower Bound	0.0241 ppt

### Dioxin-like PCB Toxicity Summary

WHO TEQ (2005) Toxic Dioxin-Like PCBs	Upper Bound	1.77 ppt
	Lower Bound	1.77 ppt

### Dioxin, Furan & Dioxin-like PCB Toxicity Summary

WHO TEQs (2005) Total PCDD, PCDF & DL-PCB	Upper Bound	1.94 ppt
	Lower Bound	1.79 ppt

### Total PCB Summary (Method USEPA 1668 A/C)

Total PCBs	Upper Bound	10.9 ppb
	Lower Bound	10.7 ppb

### Marker PCB Analysis (Method USEPA 1668 A/C)

Total (ICES-7) <sup>1</sup> Marker PCBs:	Upper Bound	5.36 ppb
	Lower Bound	5.35 ppb

## Heavy Metals

Component	Analytical Method	Specification	Result	Units	Meets Specification
Total Arsenic	USP 233 (ICP-MS)	< 0.1	<0.050	ppm	Yes
Cadmium	USP 233 (ICP-MS)	< 0.1	<0.010	ppm	Yes
Lead	USP 233 (ICP-MS)	< 0.1	<0.020	ppm	Yes
Mercury	USP 233 (CVAA)	< 0.1	<0.0050	ppm	Yes

## Physical Properties

Component	Analytical Method	Specification	Result	Units	Meets Specification
<b>Capsule Fill Weight</b>	In-house	Not Applicable	1.2176	g/softgel	Not Applicable