

## Certificate of Analysis

**PRODUCT:** Omega-3 Plus C & D -- 60 ct  
 Ultra Pure Omega-3 w/ PureWay-C®, Vitamin D3  
 & Citrus Bioflavonoid Complex  
**PRODUCT NO.:** MNSG-304  
**LOT NO.:** SB007327 (50351906)  
**LABEL LOT:** 073273 09/2017  
**DATE OF MANUFACTURE:** Sept, 2015  
**BEST BEFORE/RETEST:** Sept, 2017

General	Manufacturing Specification	Results	Method
Pharmaceutical Form	Orange capsule containing a golden oil suspension	Conforms	Observation
Capsule size and shape	22 Oblong	Conforms	Observation
Average Fill Weight	1269 mg +/- 5%	1283 mg	USP<2091>
Disintegration/Rupture Time	Max 15 minutes	4 min.	USP<2040>
Acid Value <sup>1</sup>	Max. 3 mg KOH/g	0.2 mg KOH/g	Ph.Eur.2.5.1
Peroxide Value <sup>1</sup>	Max. 5 meq/kg	0.9 meq/kg	AOCS Cd 8-53
Peroxide Value Finished Capsules <sup>6</sup>	Max. 10 meq/kg	<0.2 meq/kg	USP<401>/AOCS Cd 8-53
Anisidine Value <sup>1</sup>	Max. 20	3	Ph.Eur.2.5.36
Lead <sup>1</sup>	Max. 0.1 mg/kg	Passed	External laboratory*
Cadmium <sup>1</sup>	Max. 0.1 mg/kg	Passed	External laboratory*
Mercury <sup>1</sup>	Max. 0.1 mg/kg	Passed	External laboratory*
Arsenic (inorganic) <sup>1</sup>	Max. 0.1 mg/kg	Passed	External laboratory*
PCBs (209 Congeners)	Max. 0.09 mg/kg	Passed	External laboratory*
Sum of Dioxins & Furans (17) <sup>1</sup> – TEQ <sup>2</sup>	Max. 1.75 pg/g	Passed	External laboratory*
Sum of Dioxins & Furans and Dioxin like PCBs <sup>1</sup> – TEQ <sup>2</sup>	Max. 3 pg/g	Passed	External laboratory*

Microbiological Standard	Manufacturing Specification	Result	Methods
Total Plate Count	Max. 3,000 CFU/g	<100 CFU/g	USP<2021> or Soleris
Total Mold & Yeast Count	Max. 300 CFU/g	<100 CFU/g	USP<2021> or Soleris
<i>Salmonella</i>	Negative/10g	Negative/10g	USP<2022>
<i>Escherichia coli</i>	Negative/10g	Negative/10g	USP<2022> or Soleris
<i>Staphylococcus aureus</i>	Negative/10g	Negative/10g	USP<2022> or Soleris

\*See attached Analytical Report(s)

<sup>1</sup>Analysis performed on fish oil before the addition of other ingredients. <sup>2</sup>Toxicity Equivalents according to WHO.

<sup>3</sup>**Additives:** A proprietary natural antioxidant blend (Natural Tocopherols, Rosemary Extract, and Ascorbyl Palmitate) and a proprietary natural orange flavoring have been added.

<sup>4</sup>Measured as Ethyl Ester. Marine will accept analytical results from the Eurofins lab in Des Moines, IA using either the AOCS or GOED method. Analytical results using other methods or analytical results from other test labs will not be recognized in a possible conflict of results. Results based on input, using values calculated from assay of the raw materials by the methods indicated.

<sup>5</sup>Additional Omega-3s include EPA and DHA above minimum specification as well as Other Omega-3s from line above.

<sup>6</sup>Peroxide Value on delivery to customer

<sup>7</sup>Typical Values. Due to seasonal variations and fluctuations in the natural content of citrus fruit, percent occurrences of individual bioflavonoids and other food component groups are subject to some lot to lot variation.

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Ingredients	Manufacturing Specification (per 1 softgel)	Results	Method
Concentrated Omega-3 Fish Oil with Natural Orange Flavor and Proprietary Antioxidant Blend <sup>3</sup>	950 mg +/- 5%	Conforms	Input
EPA (as EE) <sup>4</sup>	282.5 mg	312.5 mg	Ph.Eur./GOED/AOCS
DHA (as EE) <sup>4</sup>	217.5 mg	252.5 mg	Ph.Eur./GOED/AOCS
Other Omega-3s (as EE) <sup>4</sup>	Report	105 mg	Ph.Eur./GOED/AOCS
Additional Omega-3s <sup>6</sup> (as EE) <sup>4</sup>	62.5 mg	170 mg	Ph.Eur./GOED/AOCS
Total Omega-3s (as EE) <sup>4</sup>	562.5 mg	670 mg	Ph.Eur./GOED/AOCS
Vitamin C (as PureWay-C®)	125 mg	147 mg	Input
Vitamin D (as D-3)	1000 IU	1350 IU	Input
Citrus Bioflavonoid Complex: Total Bioflavonoids: Providing Flavanone/s, Flavonols, Flavones and Related Phenolic Compounds: <sup>7</sup>	36 mg 18 mg	36 mg 18 mg	Input
Hesperidin 46% 16.55 mg			
Narirutin 2.3% 0.85 mg			
Didymin 0.85% 0.30 mg			
Naringin 0.30% 0.10 mg			
Diosmin 0.25% 0.10 mg			
Hesperetin 0.15% 0.05 mg			
Other 0.15% 0.05 mg			
Other Ingredients	Beeswax, Lecithin	Conforms	Input
Shell	Manufacturing Specification	Results	Method
Shell Ingredients	Gelatin, Glycerin, Purified Water, Natural Fruit Coloring, Titanium Dioxide	Conforms	Input
Shell Hardness	Regular	Conforms	Input
Flavor Coating	Orange	Conforms	Input



Caroline Lease, Quality  
 June 15, 2016