

*Certificate of Analysis*

PRODUCT: Krill Omega 50+ w/ CoQ10—60 ct  
 PRODUCT NO.: MNSG-424  
 BATCH NO.: 1703052 (61751906,41411306)  
 PACKAGED LOT NO.: 30524 04/2019  
 DATE OF MANUFACTURE: April, 2017  
 BEST BEFORE/RETEST BY: April, 2019

General	Manufacturing Specification	Results	Method
Pharmaceutical Form	Reddish brown capsule	Conforms	Observation
Softgel size and shape <sup>5</sup>	14 Oval	Conforms	Observation
Average Fill Weight	785 mg +/- 5%	782 mg	USP <2091>
Rupture Time (on delivery)	Max. 15 minutes	Passed	USP <2040>
Acid Value <sup>1</sup>	Max. 3 mg KOH/g	0.1 mg KOH/g	Ph. Eur. 2.5.1
Peroxide Value <sup>1</sup>	Max. 5 meq/kg	0.7 meq/kg	Ph. Eur. 2.5.5
Anisidine Value <sup>1</sup>	Max. 20	4.2	Ph.Eur.2.5.36
Lead <sup>1</sup>	Less than 0.1 mg/kg	Passed	AAS/ICP-OES/MS
Cadmium <sup>1</sup>	Less than 0.1 mg/kg	Passed	AAS/ICP-OES/MS
Mercury <sup>1</sup>	Less than 0.1 mg/kg	Passed	AAS/ICP-OES/MS
Arsenic (inorganic) <sup>1</sup>	Less than 0.1 mg/kg	Passed	AAS/ICP-OES/MS
PCBs (209 Congeners) <sup>1</sup>	Max. 0.09 mg/kg	Passed	HRGC-HRMS (EN 1948 mod)
Sum of Dioxins & Furans (17) <sup>1</sup> - TEQ <sup>2</sup>	Max. 1.75 pg/g	Passed	HRGC-HRMS (EN 1948 mod)
Sum of Dioxins & Furans and Dioxin like PCBs <sup>1</sup> -TEQ <sup>2</sup>	Max. 3 pg/g	Passed	HRGC-HRMS (EN 1948 mod)

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

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Ingredients	Specification (per 1 softgel)	Results	Method
Enriched Krill and Fish Oil Omega-3 Blend w/ Natural Lemon/Lime Flavor and Proprietary Antioxidant Blend <sup>3</sup>	665 mg +/- 5%	666 mg	Formulation and In-process Controls
Krill Oil	250 mg	Conforms	Formulation and In-process Controls
Total Phospholipids <sup>6</sup>	100 mg	107 mg	P-NMR
EPA (EE) <sup>3</sup>	125 mg	141 mg	GOED
DHA (EE) <sup>3</sup>	125 mg	153 mg	GOED
Other Omega-3s (EE) <sup>3</sup>	Report	44 mg	GOED
Additional Omega-3 <sup>5</sup> (EE) <sup>3</sup>	35 mg	88 mg	GOED
Total Omega-3s (EE) <sup>3</sup>	285 mg	338 mg	GOED
Natural Astaxanthin (from Krill Oil and <i>Haematococcus pluvialis</i> Extract)	250 mcg	307 mcg	HPLC
CoQ10	50 mg	54 mg	USP
Vitamin D (as D <sub>3</sub> Cholecalciferol)	250 IU	317 IU	LC-MS
Flavor Coating	LemonLock™	Conforms	Input

<sup>1</sup>Analysis performed on input fish oil before encapsulation and addition of other ingredients.

<sup>2</sup>Toxicity Equivalents according to WHO

<sup>3</sup>Measured as Ethyl Ester. Marine will accept analytical results from the Eurofins lab in Des Moines, IA using the GOED method. Analytical results using other methods or analytical results from other test laboratories will not be recognized in a possible conflict of results.

<sup>4</sup>Additional Omega-3s include EPA and DHA above minimum specification as well as Other Omega-3s from line above.

<sup>5</sup>Size: 14 oval tooling used. This size encompasses range of 12.5 to 15 minims fill volume and dimensions.

<sup>6</sup>Phospholipid release limit is 95% of specification claim.

Fill ingredients: Omega-3 Marine Oil Blend (krill, anchovy, sardine, mackerel), Beeswax, Coenzyme Q10, Natural Lemon/Lime Flavor, Proprietary Antioxidant Blend (natural mixed tocopherols (soy), rosemary extract, and ascorbyl palmitate), Astaxanthin Extract, Cholecalciferol;  
Shell ingredients: gelatin, glycerin, purified water, sorbitol, annatto extract, carob

Allergens: Contains highly refined fish oil, crustaceans (krill) and soybean\*\*

\*\*Natural mixed tocopherols derived from fully refined vegetable oils. Labeling exempted according to US Food Allergen Labeling and Consumer Protection Act (FALCPA) and Health Canada 2011 Amendments of Food Allergen Labeling Regulations.



Caroline Lease, Quality  
 July 27, 2017