

Certificate of Analysis

Product Description: Krill Omega Multivitamin
 Product Number: MNSG-501
 Batch No.: 1906085 (91161308)
 Packaged Lot No.: 1906085A
 Date of Manufacture: June, 2019

Rev. 1

General	Specification	Results	Method
Description	Reddish brown capsule containing an oil paste	Conforms	Visual
Softgel Size and Shape ⁵	14 oval	Conforms	Visual
Average Fill Weight	984 mg +/- 5%	989 mg	USP <2091>
Rupture Time	Max. 15 minutes	Pass	USP <2040>
Acid Value ¹	Max. 3 mg KOH/g	0.1 mg KOH/g	Ph.Eur. 2.5.1
Peroxide Value ¹	Max. 5 meq/kg	1.8 meq/kg	AOCS
Anisidine Value ¹	Max. 20	7.4	Ph.Eur. 2.5.36
Lead ¹	Less than 0.05 mg/kg	Passed	AAS/ICP-OES/MS
Cadmium ¹	Less than 0.1 mg/kg	Passed	AAS/ICP-OES/MS
Mercury ¹	Less than 0.1 mg/kg	Passed	AAS/ICP-OES/MS
Arsenic (inorganic) ¹	Less than 0.05 mg/kg	Passed	AAS/ICP-OES/MS
PCBs ¹	Max. 0.09 mg/kg	Passed	HRGC-HRMS
Sum of Dioxins & Furans (17) ¹ - TEQ ²	Max. 1.75 pg/g	Passed	HRGC-HRMS
Sum of Dioxins & Furans and Dioxin-like PCBs ¹ -TEQ ²	Max. 3 pg/g	Passed	HRGC-HRMS
Microbiological Standard	Specification	Results	Method
Total Plate Count	Max. 3,000 CFU/g	<3000 CFU/g	USP<2021> or equivalent
Total Mold & Yeast 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 spp.</i>	Negative/10g	Negative/10g	USP<2022> or equivalent
<i>Staphylococcus aureus</i>	Negative/10g	Negative/10g	USP<2022> or equivalent

Ingredients	Specification	Results	Method
Omega-3 Marine Oil Blend	Min. 470 mg	506 mg	Calculation
SuperbaBoost™ Krill Oil	Min. 166.67 mg	173.93 mg	Calculation
Total Phospholipids	Min. 83.33 mg	95 mg	Assay
EPA (as TG) ³	Min. 113.33 mg	140.86 mg	GOED or equivalent
DHA (as TG) ³	Min. 70 mg	94 mg	GOED or equivalent
Other Omega-3s (as TG) ³	Report	52 mg	Calculation
Additional Omega-3 ⁴ (as TG) ³	Min. 40 mg	103 mg	Calculation
Total Omega-3s (as TG) ³	Min. 223.33 mg	286.82 mg	GOED or equivalent
Natural Astaxanthin	Min. 0.67 mg	0.74 mg	HPLC
CoEnzyme Q10	Min. 33.33 mg	37.10 mg	Calculation
Zeaxanthin	Min. 0.67 mg	0.73 mg	HPLC
Lutein	Min. 3.33 mg	3.68 mg	HPLC
Grape Seed Extract (<i>Vitis vinifera</i>)	Min. 16.67 mg	17.40 mg	Calculation
<i>Ginkgo Biloba</i> Leaf Extract	Min. 20 mg	21 mg	Calculation
Citrus Bioflavonoid Complex	Min. 33.33 mg	36.35 mg	Calculation
Citrus Bioflavonoids	Min. 16.67 mg	18.92 mg	HPLC
Vitamin E (d-alpha Tocopherol)	Min. 21.67 mg	25.56 mg	STM 006
Vitamin D (Cholecalciferol)	Min. 666.67 IU	892.24 IU	Calculation
Vitamin C (Ascorbic Acid)	Min. 66.67 mg	74.15 mg	HPLC

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Vitamin B1 (Thiamine Mononitrate)	Min. 5 mg	5 mg	USP
Riboflavin	Min. 5 mg	5 mg	USP
Niacinamide	Min. 8.33 mg	9.16 mg	USP
Vitamin B6 (Pyridoxine Hydrochloride)	Min. 3.33 mg	3.63 mg	USP
Folic Acid	Min. 133.33 mcg	147.3 mcg	USP
Vitamin B12 (Methylcobalamin)	Min. 100 mcg	104 mcg	USP
Chromium (Chromium Picolinate)	Min. 33.33 mcg	48.75 mcg	ICP MS
Selenium (Selenium Chelate)	Min. 50 mcg	79 mcg	ICP MS
Zinc (OptiZinc®)	Min. 5 mg	5 mg	ICP MS
Beta Carotene	Min. 1 mg	1 mg	USP
Pantothenic Acid (d-Calcium Pantothenate)	Min. 8.33 mg	9.22 mg	USP
Biotin	Min. 100 mcg	110 mcg	USP
Magnesium (Magnesium Oxide)	Min. 10 mg	12 mg	ICP MS
Calcium (Calcium Carbonate)	Min. 6.67 mg	14.80 mg	ICP-OES
Iodine (Potassium Iodide)	Min. 50 mcg	58 mcg	Titration
Molybdenum (Molybdenum Yeast)	Min. 15 mcg	24 mcg	ICP MS
Boron (Boron Glycinate)	Min. 1 mg	1 mg	ICP MS

¹Analysis performed on input fish oil before encapsulation and addition of other ingredients. ²Toxicity Equivalents according to WHO

³ Measured as Triglyceride. Marine will accept analytical results from the Eurofins laboratory (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.

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

⁵Size 14 oval tooling used.

Ingredients: Fish oil, TG: Superba Boost krill oil; gelatin, bovine; ascorbic acid; glycerin; coenzyme Q10; citrus bioflavonoid complex; selenium chelate; Opti zinc®; d-alpha tocopherol; purified water; Lutemax® 2020; ginkgo biloba extract; yellow beeswax; magnesium oxide; calcium carbonate; grape seed extract; sorbitol; methylcobalamin; soy lecithin; biotin; D-calcium pantothenate; molybdenum yeast; niacinamide; boron glycinate; astaxanthin; thiamine mononitrate; riboflavin; pyridoxine hydrochloride; betacarotene; natural lemon; annatto extract carob color; natural lime flavor; cholecalciferol (in corn oil); proprietary antioxidant blend (rosemary extract, natural mixed tocopherols, ascorbyl palmitate); chromium picolinate; folic acid; potassium iodide

Allergen: Contains Crustaceans, highly refined fish oil and soybean. Highly refined fish oil labeling exempted according to c,d. Labeling required according to a,b. Mixed tocopherols (E306). Labeling exempted according to b,c,d. Labeling required according to a.

- a) Australian New Zealand Food Standards Code (Standard 1.2.3)
- b) Directive 2000/12/EC as amended, list according to Annex IIIa
- c) US Food Allergen Labeling and Consumer Protection Act (FALCPA)
- d) Health Canada 2011 Amendments of Food Allergen Labeling Regulations

Reviewed by/Date:

Jan DeSaw 8/7/2019

Quality Released by/Date:

Caroline June 8/7/2019