

*Certificate of Analysis*

Product: Omega Berry –60 ct  
 Product Description: BioMarine® Fish Oil with Berry Extract and Vitamin D  
 Product Number: MNSG-280  
 Batch No.: 1710089 (0017564686)  
 Packaged Lot No.: 00893 11/2019  
 Date of Manufacture: Nov., 2017  
 Best Before/Retest by: Nov., 2019

General	Manufacturing Specification	Results	Method
Description	Two Tone Purple & White softgel containing oil paste	Conforms	Observation
Softgel Size and Shape <sup>5</sup>	24 Oblong	Conforms	Observation
Average Fill Weight	1305 mg +/- 5%	1302 mg	USP <2091>
Rupture Time (on delivery)	Max. 15 minutes	Pass	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	<0.1 meq/kg	Ph.Eur. 2.5.5
Anisidine Value <sup>1</sup>	Max. 20	2.4	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	Method
Total Plate Count	Max. 3,000 CFU/g	<10 CFU/g	USP<2021> or equivalent
Total Mold & Yeast Count	Max. 300 CFU/g	<10 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
Highly Refined and Concentrated BioMarine® Omega-3 Fish Oil with Natural Mixed Berry/Lemon Flavor and Proprietary Antioxidant Blend	1070 mg +/- 5%	Conforms	Formulation and In Process Controls
EPA (as EE) <sup>3</sup>	Min. 310 mg (325 mg Target) <sup>6</sup>	421 mg	GOED or equivalent
DHA (as EE) <sup>3</sup>	Min. 235 mg (250 mg Target) <sup>6</sup>	269 mg	GOED or equivalent
Other Omega-3s (as EE) <sup>3</sup>	Report	132 mg	Calculation
Additional Omega-3 <sup>4</sup> (as EE) <sup>3</sup>	Min. 55 mg	277 mg	Calculation
Total Omega-3s (as EE) <sup>3</sup>	Min. 600 mg (625 mg Target) <sup>6</sup>	822 mg	GOED or equivalent
Vitamin D (as Cholecalciferol)	Min. 500 IU	700 IU	LC-MSMS
Açaí Extract ( <i>Euterpe oleracea mart</i> ) 2% Polyphenols	Min. 15 mg	Conforms	Formulation and In Process Controls
Proprietary Berry Extract Blend	Min. 10 mg	Conforms	Formulation and In Process Controls
Flavor coating	Natural berry	Conforms	Formulation and In-process Controls

<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 laboratory 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>Softgel minims volume of approximately 22. Size 24 oblong tooling used.

<sup>6</sup>Marine formulation to target minimum 325 mg EPA, 250 mg DHA, and 625 mg Total Omega-3 based on pre-production testing of input fish oils and master formula theoretical fill weight.

Fill ingredients: Highly Refined and Concentrated Omega-3 Fish Oil (anchovy, sardine, mackerel), Beeswax, Lecithin (soy), Natural Lemon/Mixed Berry Flavor, Açaí Extract, Proprietary Berry Extract Blend (including açai, acerola, wild bilberry, blackberry, wild blueberry, camu camu, tart cherry, coffee concentrate, cranberry, escobillo, grape, mangosteen, pomegranate, prune, quercetin, raspberry, resveratrol, and strawberry), Proprietary Antioxidant Blend (natural mixed tocopherols (soy), rosemary extract, and ascorbyl palmitate), cholecalciferol.

**Allergen:** Contains 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



Caroline Lease, Quality  
 March 12, 2018