## Certificate of Analysis

PRODUCT:OptiKrill 500 –60 ctPRODUCT DESCRIPTION:Krill and BioMarine® Omega-3 Concentrate w/ Natural Lemon/Lime<br/>Flavor and Vitamin DBATCH NO.:1605041 (52781906, NKO-1510211)LABEL LOT:160412 05/2018PRODUCT NO:MNSG-400DATE OF MANUFACTURE:May, 2016BEST BEFORE/RETEST BY: May, 2018

| General  | Manufacturing<br>Specification                 | Results      | Method               |
|--|--|--------------|----------------------|
| Pharmaceutical Form  | Reddish brown capsule containing a reddish oil | Conforms     | Observation          |
| Capsule size and shape   | 10 Oval  | Conforms     | Observation          |
| Average Fill Weight  | 540 mg +/- 5%                                  | 540 mg       | USP<2091>            |
| Disintegration/Rupture time  | Max. 15 minutes                                | Passed       | USP<2040>            |
| Acid Value <sup>1</sup>  | Max. 3 mg KOH/g                                | 0.4 mg KOH/g | Ph.Eur. 2.5.1        |
| Peroxide Value <sup>1</sup>  | Max. 5 meq/kg                                  | 1.1 meq/kg   | Ph.Eur 2.5.5         |
| Peroxide Value Finished<br>Capsules <sup>6</sup>                             | Max. 10 meq/kg                                 | <0.2 meq/kg  | AOCS Cd 8-53         |
| Anisidine Value <sup>1</sup>   | Max. 20  | 2            | Ph.Eur. 2.5.36       |
| Lead <sup>1</sup>  | Max. 0.1 mg/kg                                 | Conforms     | External Laboratory* |
| Cadmium <sup>1</sup>   | Max. 0.1 mg/kg                                 | Conforms     | External Laboratory* |
| Arsenic (inorganic) <sup>1</sup>   | Max. 0.1 mg/kg                                 | Conforms     | External Laboratory* |
| Mercury <sup>1</sup>   | Max. 0.1 mg/kg                                 | Conforms     | External Laboratory* |
| PCBs (209 Congeners) <sup>1</sup>  | Max. 0.09 mg/kg                                | Conforms     | External Laboratory* |
| Sum of Dioxins & Furans (17) <sup>1</sup><br>-TEQ <sup>2</sup>               | Max. 1.75 pg/g                                 | Conforms     | External Laboratory* |
| Sum of Dioxins & Furans and Dioxin like PCBs <sup>1</sup> – TEQ <sup>2</sup> | Max. 3 pg/g                                    | Conforms     | External Laboratory* |

| Microbiological Standard | Manufacturing<br>Specification | Result       | Method    |
|--------------------------|--------------------------------|--------------|-----------|
| Total Plate Count        | Max. 3,000 CFU/g               | <3,000 CFU/g | USP<2021> |
| Total Mold & Yeast Count | Max. 300 CFU/g                 | <300 CFU/g   | USP<2021> |
| Salmonella               | Negative/10g                   | Negative/10g | USP<2022> |
| E. coli                  | Negative/10g                   | Negative/10g | USP<2022> |
| Staphylococcus aureus    | Negative/10g                   | Negative/10g | USP<2022> |

\*See attached Analytical Report(s).

## Certificate of Analysis

 PRODUCT:
 OptiKrill 500 –60 ct

 PRODUCT DESCRIPTION:
 Krill and BioMarine® Omega-3 Concentrate w/ Natural Lemon/Lime

 Flavor and Vitamin D
 Flavor and Vitamin D

 BATCH NO.:
 1605041 (52781906, NKO-1510211)

 LABEL LOT:
 160412 05/2018

 PRODUCT NO:
 MNSG-400

 DATE OF MANUFACTURE:
 May, 2016

 BEST BEFORE/RETEST BY: May, 2018

| Ingredients   | Manufacturing<br>Specification<br>(per 1 soft gel)              | Results  | Method              |
|---|---|----------|---------------------|
| Enriched Krill and Fish Oil Omega-3<br>Blend w/ Natural Lemon/Lime Flavor<br>and Proprietary Antioxidant Blend <sup>3</sup> | 540 mg +/- 5%   | 540 mg   | Input               |
| Krill Oil   | 250 mg  | 250 mg   | Input               |
| Total Phospholipids   | 100 mg  | 97 mg    | Input               |
| EPA (as EE) <sup>4</sup>  | 105 mg  | 123 mg   | AOCS/GOED           |
| DHA (as EE) <sup>4</sup>  | 65 mg   | 79 mg    | AOCS/GOED           |
| Other Omega-3 (as EE) <sup>4</sup>  | Report  | 47 mg    | AOCS/GOED           |
| Additional Omega-3 <sup>5</sup> (as EE) <sup>4</sup>  | 40 mg   | 79 mg    | AOCS/GOED           |
| Total Omega-3 Fatty Acids (as EE) <sup>4</sup>  | 210 mg  | 249 mg   | AOCS/GOED           |
| Natural Astaxanthin (from Krill Oil and<br>Haematococcus pluvials Extract)  | 250 mcg   | 495 mcg  | Input               |
| Vitamin D (as D <sub>3</sub> Cholecalciferol)   | 250 IU  | 385 IU   | External laboratory |
| Shell Ingredients   | Gelatin, Glycerin, Purified<br>Water, Annatto Extract,<br>Carob | Conforms | Input               |
| Shell Hardness  | Regular   | Conforms | Input               |
| Flavor coating  | Lemon   | Conforms | Input               |

<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 lemon/lime flavoring have been added.

<sup>4</sup>Measured as Ethyl Ester. Any third party test result must be based on a laboratory using the CRN/GOED or European Pharmacopeia method. Results from other methods, such as AOAC, AOCS, USP or other methods, 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. Results based on input, using values calculated from assay of the raw materials by the methods.

<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.

Ingredients: Enriched Krill and Fish Oil Omega-3 Blend consisting of Krill Oil and BioMarine® Fish Oil (krill, anchovy, sardine, mackerel), Capsule Shell (gelatin, glycerin, purified water, annatto extract, and carob), Natural lemon/lime Flavor, Proprietary Antioxidant Blend (natural tocopherols (soy), rosemary extract, and ascorbyl palmitate), and cholecalciferol.

Allergens: Contains highly refinred fish oil, crustaceans and soybeans..

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Caroline Lease, Quality July 13, 2016