

Certificate of Analysis

Product name: Omega-3 DHA+EPA
 Batch nr.: 1443780100
 Shelf life: 11/23

Mat.No./Batch: 60016343 / 1443780100

Manufact.date: 25.11.2021

Inspection Lot 40000162428 from 23.11.2021

| Procedure Characteristic qual. Specification Method | Unit | Value | Lower Limit | Upper Limit |
|---|------|----------|----------------|----------------|
| Galenical testing | | | | |
| HF Shape and Size HF Shape and Size oblong 15 minims AA-QC-052 Galenical | - | complies | - | - |
| HF Colour HF Colour natural AA-QC-052 Galenical | - | complies | - | - |
| HF Length AA-QC-052 Galenical | mm | 22.3 | 0.0 | 1000.0 |
| HF Diameter AA-QC-052 Galenical | mm | 8.6 | 0.0 | 1000.0 |
| HF Filling weight EP 2.9.5 | mg | 856.0 | 785.0 | 935.0 |
| HF Uniformity of mass EP 2.9.5 | - | complies | - | - |
| HF Total mass EP 2.9.5 | mg | 1189.9 | 1075.5 | 1314.5 |

I hereby certify that the above information is authentic and accurate. The batch was manufactured and checked with the product formulation under HACCP guidelines.

Deviations:

In the production, testing and packaging there was:

no release relevant deviations / OOS results

deviations / OOS results, which could have influence on the quality of the product. The deviation report was valued and approved by a qualified person (see Annex)

in addition relevant informations with regard to the quality are added

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| Test | Result | Limits / Specifications | Dimension / Units | Method |
|---------------------------|--------------|-------------------------|-------------------|---------------|
| COLOR | Corresponds | LIGHT YELLOW | | |
| AROMA | Corresponds | CHARACTERISTIC | | |
| TOTAL OMEGA-3 CONTENT | 552 | Min. 550 | mg/g | AOCS Ce 1b-89 |
| DHA CONTENT | 326 | Min. 300 | mg/g | AOCS Ce 1b-89 |
| EPA CONTENT | 183 | Min. 150 | mg/g | AOCS Ce 1b-89 |
| DPA CONTENT | 43 | Record | mg/g | AOCS Ce 1b-89 |
| DHA + EPA CONTENT | 509 | Min. 500 | mg/g | |
| PEROXIDE VALUE | < 0.1 | Max. 5.0 | meq/kg | AOCS Cd 8-53 |
| ANISIDINE VALUE | 1 | Max. 20 | | AOCS Cd 18-90 |
| TOTOX | 1 | Max. 26 | | |
| FREE FATTY ACID | 0.1 | Max. 0.25 | % | AOCS Ca 5a-40 |
| MOISTURE & VOLATILES | < 0.01 | Max. 0.02 | % | AOCS Ca 2c-25 |
| UNSATURATED MATTER | 0.7 | Max. 4.5 | % | AOCS Ca 6b-53 |
| TRANS FATTY ACIDS | < 1 | Max. 1 | % | AOCS Cd 14-95 |
| ARSENIC | Corresponds* | Max. 0.1 | ppm | AOCS Ca 17-01 |
| CADMIUM | Corresponds* | Max. 0.1 | ppm | AOCS Ca 17-01 |
| COPPER | Corresponds* | Max. 0.05 | ppm | AOCS Ca 17-01 |
| IRON | Corresponds* | Max. 0.2 | ppm | AOCS Ca 17-01 |
| LEAD | Corresponds* | Max. 0.1 | ppm | AOCS Ca 17-01 |
| MERCURY | Corresponds* | Max. 0.04 | ppm | AOAC 977.15 |
| FATTY ACID PROFILE | | | | |
| 20:5n-3 EPA | 20.3 | Record | % | AOCS Ce 1b-89 |
| 22:5n-3 DPA | 4.8 | Record | % | AOCS Ce 1b-89 |
| 22:6n-3 DHA | 35.5 | Record | % | AOCS Ce 1b-89 |

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Analytical specification:

| Parameter | Limit | Test result |
|---------------------------|-------------------------|-------------|
| Astaxanthin ¹⁾ | ≥ 5 % | Conform |
| Moisture | < 5 % | Conform |
| Arsenic | < 0,1 mg/kg | Conform |
| Lead | < 0,1 mg/kg | Conform |
| Cadmium | < 0,025 mg/kg | Conform |
| Mercury | < 0,025 mg/kg | Conform |
| Total Plate Count | < 10 ³ CFU/g | Conform |
| Total Coliforms | < 10 CFU/g | Conform |
| Escherichia coli | negative | Conform |
| Yeast & Molds | < 10 ² CFU/g | Conform |
| Salmonella | negative/25g | Conform |

1) Determined as total free astaxanthin by NP-HPLC (sum of isomers: all-trans astaxanthin, 9-cis astaxanthin, 13-cis astaxanthin, dl-cis astaxanthin # 1, di-cis astaxanthin # 2).

| Chemical-Physical Analysis | Actual | Specification |
|-----------------------------------|-----------------|----------------------|
| Phosphatidylcholine (total) | 30,10% | min. 30% |
| Toluene Insolubles | <0,01% | max. 0,3% |
| Acid Value | 22,30mgKOH/g | max. 40mgKOH/g |
| Peroxid Value | 0,1 meq02/kg | max. 5meq02/kg |
| Acetone Insolubles | 54,20% | min. 50% |
| Moisture | 0,26% | max. 1,0% |
| Viscosity | 6,9 Pa.s.(25°C) | max. 12 Pa.s.(25°C) |
| Microbiological Analysis | Actual | Specification |
| Total Plate Count | <10cfu/g | max. 1.000cfu/g |
| Yeast & Moulds | each <10cfu/g | each max. 50cfu/g |
| Coliforms | neg./g | neg./g |
| Salmonella | neg./25g | neg./25g |