



## 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 2o-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
<b>FATTY ACID PROFILE</b>				
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 <sup>1)</sup>	≥ 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 <sup>3</sup> CFU/g	Conform
Total Coliforms	< 10 CFU/g	Conform
Escherichia coli	negative	Conform
Yeast & Molds	< 10 <sup>2</sup> 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).

<b>Chemical-Physical Analysis</b>	<b>Actual</b>	<b>Specification</b>
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)
<b>Microbiological Analysis</b>	<b>Actual</b>	<b>Specification</b>
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