

Certificate of Analysis

Product name: Omega-3 DHA+EPA
 Batch nr.: 1469410100
 Shelf life: 08/24

Mat.No./Batch: 60016660 / 1469410100

Manufact.date: 19.08.2022

Inspection Lot 40000167849 from 04.08.2022

Procedure Characteristic qual. Specification Method	Unit	Value	Lower Limit	Upper Limit
Galenical testing				
HF Shape and Size	-	complies	-	-
HF Shape and Size oblong 15 minims AA-QC-052 Galenical	-	complies	-	-
HF Colour	-	complies	-	-
HF Colour natural AA-QC-052 Galenical	-	complies	-	-
HF Length AA-QC-052 Galenical	mm	21.3	0.0	1000.0
HF Diameter AA-QC-052 Galenical	mm	9.3	0.0	1000.0
HF Filling weight EP 2.9.5	mg/sgc	871.4	774.0	946.0
HF Uniformity of mass EP 2.9.5	-	complies	-	-
HF Total mass EP 2.9.5	mg/sgc	1173.0	1026.0	1254.0

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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For this production 4 batches of oil have been combined:

Test	Result	Limits / Specifications	Dimension / Units	Method
COLOR	Corresponds	LIGHT YELLOW		
AROMA	Corresponds	CHARACTERISTIC		
TOTAL OMEGA-3 CONTENT	567	Min. 550	mg/g	AOCS Ce 1b-89
DHA CONTENT	325	Min. 300	mg/g	AOCS Ce 1b-89
EPA CONTENT	193	Min. 150	mg/g	AOCS Ce 1b-89
DPA CONTENT	50	Min. 30	mg/g	AOCS Ce 1b-89
DHA + EPA CONTENT	518	Min. 500	mg/g	
PEROXIDE VALUE	< 0.1	Max. 5.0	meq/kg	AOCS Cd 8-53
ANISIDINE VALUE	2	Max. 20		AOCS Cd 18-90
TOTOX	2	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
UNSAPONIFIABLE 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	21.4	Record	%	AOCS Ce 1b-89
22:5n-3 DPA	5.5	Record	%	AOCS Ce 1b-89
22:6n-3 DHA	35.1	Record	%	AOCS Ce 1b-89

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Test	Result	Limits / Specifications	Dimension / Units	Method
COLOR	Corresponds	LIGHT YELLOW		
AROMA	Corresponds	CHARACTERISTIC		
TOTAL OMEGA-3 CONTENT	572	Min. 550	mg/g	AOCS Ce 1b-89
DHA CONTENT	362	Min. 300	mg/g	AOCS Ce 1b-89
EPA CONTENT	175	Min. 150	mg/g	AOCS Ce 1b-89
DPA CONTENT	35	Min. 30	mg/g	AOCS Ce 1b-89
DHA + EPA CONTENT	537	Min. 500	mg/g	
PEROXIDE VALUE	< 0.1	Max. 5.0	meq/kg	AOCS Cd 8-53
ANISIDINE VALUE	2	Max. 20		AOCS Cd 18-90
TOTOX	2	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
UNSAPONIFIABLE MATTER	0.8	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	19.4	Record	%	AOCS Ce 1b-89
22:5n-3 DPA	3.8	Record	%	AOCS Ce 1b-89
22:6n-3 DHA	39.1	Record	%	AOCS Ce 1b-89

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Test	Result	Limits / Specifications	Dimension / Units	Method
COLOR	Corresponds	LIGHT YELLOW		
AROMA	Corresponds	CHARACTERISTIC		
TOTAL OMEGA-3 CONTENT	568	Min. 550	mg/g	AOCS Ce 1b-89
DHA CONTENT	357	Min. 300	mg/g	AOCS Ce 1b-89
EPA CONTENT	175	Min. 150	mg/g	AOCS Ce 1b-89
DPA CONTENT	36	Min. 30	mg/g	AOCS Ce 1b-89
DHA + EPA CONTENT	532	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
UNSAPONIFIABLE 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	19.2	Record	%	AOCS Ce 1b-89
22:5n-3 DPA	4.1	Record	%	AOCS Ce 1b-89
22:6n-3 DHA	38.4	Record	%	AOCS Ce 1b-89

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Fatty acids composition g FA/100 g product		Result	target	min	max	Method
Eicosapentaenoic acid (EPA)	C 20:5	1.5		-	1.5	LI-00.511-02
Docosahexaenoic acid (DHA)	C 22:6	39.8		39.2	43.0	LI-00.511-02
Sum of trans FAs		0.00		-	0.94	LI-00.511-02
Quality and identity characteristics						
Acid value (mg KOH/g oil)		0.1		-	0.2	ISO 660:2008
Peroxide value (meq O ₂ /kg oil)		< 0.2		-	0.5	AOCS Cd 8b-90
Cold test (pos/neg)		Pos		-	-	NGD C24-1979
Sensory evaluation		Passed		-	-	Nestlé St-31.107
Induction period (Rancimat/hours at 80 °C)		12		10	-	ISO 6886:2006
Colour LOVIBOND (cell 1") Y		14		-	70	NGD C20-1976
Colour LOVIBOND (cell 1") R		0.7		-	4.0	NGD C20-1976
p-anisidine value (FoodLab)		5		-	12	FoodLab
Glycidol bound in esters (mg/kg) ***		< LQ		-	0.10	AOCS-CD29C-13
Sum free 3-MCPD and 3-MCPD bound in esters (mg/kg) ***		< 0.35		-	0.35	AOCS-CD29C-13
Mineral Oil MOSH (mg/kg) **		< 20		-	20	external analysis
Mineral Oil MOAH (mg/kg) **		< LQ		-	-	external analysis

*** Compliant based on monitoring data

**MOH in the Oil :calculated based on the composing oils