

Art. No: 52795044	Issue date: 18 December 2017
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Approved by: Quality Director Rigmor Longva	Prepared by: Q&D Manager Anja Helen Haugom

Customer:

Marinex

Description:

A brown 200 ml glass bottle, containing light yellow fish oil with mild lemon flavour. Fish oil obtained from fish of families such as Engraulidae, Clupeidae and Scombridae as mentioned in European Pharmacopoeia. The product is a triglyceride, rich in omega-3 fatty acids. The content of EPA (Eicosapentaenoic acid) and DHA (Docosahexaenoic acid) is approximately 50%.

Each bottle contains:

Ingredients	Quantity	Unit
Fish Oil TG 3322 Ultra 186 (Art.no.: 52795043)	200 approx 188	ml g
Containing		
Lemon flavour L 139380	1.0	w/w%
Antioxidant blend containing sunflower oil, natural tocopherols (E306), extracts of rosemary, mono and diglycerides of fatty acids (E471)	0.2	w/w%

Nutritional values per 5 ml:

EPA (eicosapentaenoic acid)	min. 1300	mg as TG
DHA (docosahexaenoic acid)	min. 890	mg as TG
Total omega-3 fatty acids	min. 2600	mg as TG

Typical values of:

Saturated fatty acids	2-8	%
Monounsaturated fatty acids	10-20	%
Polyunsaturated fatty acids	70-80	%
Energy	41 – 170	kcal – kJ
Fat	4.6	g
Carbohydrates	0	g
Protein	0	g
Sodium	0	g

Packaging:

Bottle	200 ml round glass bottle, brown. Art.no.: 67628156
Cap	Vistop Poured 2820, white. Art.no.: 67628153
Neckband	Transparent with black writing. Art.no.: 67630379
Labels	No labels.
Carton	12 bottles in each carton and cartons are packed in cardboard containers.

Shelf life:

2 years if the product is stored in unopened original closed containers, protected from heat and light.

Storage:

The product is sensitive to air, heat and light, and should be stored in tightly closed containers in a dry place.

Information:

This product is for nutritional supplements. For further information, please contact us.


Analytical specifications

Parameter	Specification	Unit	Method
EPA (Eicosapentaenoic acid)	min. 33	A %	GC, AM007
DHA (Docosahexaenoic acid)	min. 22	A %	
Total omega-3 fatty acids	min. 65	A %	
EPA (Eicosapentaenoic acid, TG)	min. 290	mg/g	Ph.Eur. 2.4.29
DHA (Docosahexaenoic acid, TG)	min. 190	mg/g	
Total omega-3 fatty acids (TG)	min. 570	mg/g	
EPA (Eicosapentaenoic acid, TG)	min. 1300	mg/5 ml	Ph.Eur. 2.4.29
DHA (Docosahexaenoic acid, TG)	min. 890	mg/5 ml	
Total omega-3 fatty acids (TG)	min. 2600	mg/5 ml	
Ethyl esters	max. 5	A%	Ph.Eur. 2.2.30
Oligomers	max. 3.0	A%	
Partial glycerides	max. 50.0	A%	
Triglycerides	min. 50	A%	
Cholesterol	max. 2	mg/g	USP 39
Trans fatty acids	max. 1*	w/w%	
Peroxide value (PV)	max. 5	meq/kg	Ph.Eur. 2.5.5 (Method A)
Anisidine value (AV)	max. 20	-	Ph.Eur. 2.5.36
TOTOX (2xPV+AV)	max. 26	-	Calculated
Anisidine value with flavour added	report	-	Ph.Eur. 2.5.36
Acid value	max. 3.0	mg KOH/g	Ph.Eur. 2.5.1
Absorbance at 233 nm	max. 0.73	AU	Ph.Eur. 2.2.25
Density (25°C)	0.934-0.944	g/ml	AOCS To 1a-64
Colour Gardner	max. 6	-	AOCS Td 1a-64
Cold test remains clear at 0°C	min. 3	hours	AOCS Cc 11-53 mod
Lead	max. 0.10	mg/kg	AAS/ICP-OES/MS
Cadmium	max. 0.1	mg/kg	
Mercury	max. 0.10	mg/kg	
Arsenic	max. 0.1	mg/kg	
DDT	max. 0.01	mg/kg	GC (LFGB L00.00-34)
DDD	max. 0.01	mg/kg	
DDE	max. 0.01	mg/kg	
HCB	max. 0.01	mg/kg	
PCB (IUPAC No 28, 52, 101, 138, 153, 180)	max. 0.018	mg/kg	HRGC-HRMS (EN 1948 mod)
PCB (209 Congeners)	max. 0.09*	mg/kg	HRGC-HRMS (USEPA 1668c mod)
Dioxins and Furans (WHO-PCDD/F-TEQ)	max. 1.75	pg/g	HRGC-HRMS (EN 1948 mod)
Dioxins + Furans + dl-PCBs (WHO-PCDD/F-PCB-TEQ)	max. 3	pg/g	
Benzo(a)pyrene	max. 2.0	µg/kg	GC-MS
Benzo(a)pyrene + Benz(a)anthracene + Benzo(b)fluoranthene + Chrysene	max. 10.0	µg/kg	GC-MS

* Analysed on random sample basis.

Note:

The information provided in this data sheet is based upon our current knowledge and experience. Suggestions for the use and application of the products and guide formulations are given for information purposes only, and without commitment. Such suggestions do not release Marine Ingredients' customers from testing the products as to their suitability for the customer's intended processes and purposes. Marine Ingredients does not assume any liability or risk involved in the use of its products as the conditions of use are beyond its control. The user of the products is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties.

Prepared by:	Approved by:	Approved by customer:
Position: <u>Q&D Manager</u>	Position: <u>Quality Director</u>	Position: _____
Signature: 	Signature: 	Signature: _____
Date: <u>2017/12/18</u>	Date: <u>2017/12/18</u>	Date: _____