

Analytical report AR-25-HD-017841-02



Testing laboratory:

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Customer:

BRAINMARKET s.r.o.
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CZECH REPUBLIC

Issue date 04.06.2025

Sample code 540-2025-00016244

Sample reception date: 27.03.2025
Date of Testing 27.03.2025 - 02.06.2025

Sample information:

Sample name, extended: ¹⁾ BrainMax Omega-3 Fish Oil, softgel caps
Sample description: ¹⁾ 005-32407-217391
Client Purchase order nr.: BrainMax Omega-3 Fish Oil, softgel kapsle /economy
Order date: 25.03.2025
Client sample code: ¹⁾ 64938
Sampler: Customer
Additional sample description: Batch number: B03250

Physical and chemical tests

Parameter	Unit	Result	Uncertainty of measurement *	Method	Method principle	TZ
Brutto sample weight of supplied sample	kg	0.42	5%	SOP MB.005.PB	Gravimetry	A
Anisidine number		6.30	4%	SOP 8.72. (ČSN EN ISO 6885)	Spectrophotometry	SA
Fat	g/100 g	66.40	4.32	Internal Method 1 [DE Food], SOP:00.12000.L, 2024-09	Gravimetry [Weibull-Stoldt]	SA
C 4:0 (Butyric Acid)	g/100 g fat	<0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 5:0 (Valeric Acid)	g/100 g fat	<0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 6:0 (Caproic acid)	g/100 g fat	<0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 7:0 (Enanthic acid)	g/100 g fat	<0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 8:0 (Caprylic acid)	g/100 g fat	0.3		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 9:0 (Nonanoic acid)	g/100 g fat	<0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA

Physical and chemical tests

Parameter	Unit	Result	Uncertainty of measurement *	Method	Method principle	TZ
C 10:0 (Capric acid)	g/100 g fat	0.2	0.0	DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 11:0 (Undecanoic acid)	g/100 g fat	<0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 12:0 (Lauric acid)	g/100 g fat	<0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 13:0 (Tridecanoic acid)	g/100 g fat	<0.1	0.0	DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 14:0 (Myristic acid)	g/100 g fat	0.3		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 14:1 (trans fatty acid)	g/100 g fat	<0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 14:1 (Myristoleic acid)	g/100 g fat	<0.1	0.1	DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 15:0 (Pentadecanoic acid)	g/100 g fat	<0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 15:1 (Pentadecenoic acid)	g/100 g fat	<0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 16:0 (Palmitic acid)	g/100 g fat	1.1	0.1	DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 16:1 (trans fatty acid)	g/100 g fat	<0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 16:1 (Palmitoleic acid)	g/100 g fat	0.8		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 17 (Heptadecanoic acid)	g/100 g fat	<0.1	0.1	DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 17:1 (Heptadecenoic acid)	g/100 g fat	<0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 18:0 (Stearic acid)	g/100 g fat	2.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 18:1 (cis fatty acid)	g/100 g fat	0.4		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA

Physical and chemical tests

Parameter	Unit	Result	Uncertainty of measurement *	Method	Method principle	TZ
C 18:1 tr 6 (fatty acid)	g/100 g fat	<0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 18:1 n6 cis-Petroselinic acid	g/100 g fat	<0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 18:1 n9 trans-Elaidic acid	g/100 g fat	0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 18:1 n9 (cis oleic acid)	g/100 g fat	4.2	0.4	DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 18:1 n11 trans-Vaccen acid	g/100 g fat	<0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 18:1 n11 cis-Vaccen acid	g/100 g fat	1.2		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 18:2 trans (fatty acid)	g/100 g fat	0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 18:2 (trans-cis fatty acid)	g/100 g fat	<0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 18:2 (cis-trans fatty acid)	g/100 g fat	<0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 18:2 n6 (trans-Linolelaidic acid)	g/100 g fat	<0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 18:2 n6 (cis-linoleic acid)	g/100 g fat	1.0	0.2	DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 18:3 (trans fatty acid)	g/100 g fat	0.7		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C18:3 n3 (Alpha-Linolenic acid)	g/100 g fat	0.6	0.1	DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 18:3 n6 (gamma-Linolenic acid)	g/100 g fat	0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C18:4 n3 (Octadecatetraenoic)	g/100 g fat	0.9		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 19:0 (Nonadecanoic acid)	g/100 g fat	<0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA

Physical and chemical tests

Parameter	Unit	Result	Uncertainty of measurement *	Method	Method principle	TZ
C 20:0 (Arachidic acid)	g/100 g fat	1.5		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 20:1 (Eicosenoic acid)	g/100 g fat	1.9		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 20:2 (Eicosadienoic acid)	g/100 g fat	0.5		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 20:3 n3 (cis-11,14,17-Eicosatrien acid)	g/100 g fat	0.4		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 20:3 n6 (cis-8,11,14-Eicosatrien acid)	g/100 g fat	0.5		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 20:4n6 (Arachidonic Acid)	g/100 g fat	3.3		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 20:5n3 (cis-5,8,11,14,17-Eicosapentaenoic Acid)	g/100 g fat	36.5		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 21:0 (Heneicosanoic acid)	g/100 g fat	<0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 22:0 (Behenic acid)	g/100 g fat	0.2		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C22:1 erucic acid	g/100 g fat	0.4		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 22:2 n6 (cis-13,16-docosadienoic acid)	g/100 g fat	0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C22:5n-3 Docosapentaenoic (DPA)	g/100 g fat	5.7		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
DHA Docosahexaenoic acid C22:6	g/100 g fat	23.8		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 23:0 (Tricosanoic acid)	g/100 g fat	0.4		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 24:0 (Lignoceric acid)	g/100 g fat	0.1		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
C 24:1 (Nervonic acid)	g/100 g fat	0.4		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA

Physical and chemical tests

Parameter	Unit	Result	Uncertainty of measurement *	Method	Method principle	TZ
saturated fatty acids in the fat	g/100 g	6.3	1.1	DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
monounsaturated fatty acids in the fat	g/100 g	9.4	0.9	DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
polyunsaturated fatty acids in the fat	g/100 g	73.3	15.0	DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
trans fatty acids in the fat	g/100 g	1.1	0.8	DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
unidentifiable fatty acids in the fat	g/100 g	9.9		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
saturated fatty acids in the product	g/100 g	4.2		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
monounsaturated fatty acids in the product	g/100 g	6.2		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
polyunsaturated fatty acids in the product	g/100 g	48.7		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
trans fatty acids in the product	g/100 g	0.7		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
unidentifiabel FA in the product	g/100 g	6.6		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
Omega-3 fatty acids in the fat	g/100 g	67.5	8.2	DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
Omega-6 fatty acids in the fat	g/100 g	4.3	0.5	DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
omega9 fatty acids in fat	g/100 g	6.9		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
Omega-3 and -6 fatty acids in the fat	g/100 g	71.8	7.9	DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
Omega-3 fatty acids in the product	g/100 g	44.8		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
Omega-6 fatty acids in the product	g/100 g	2.9		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA

Physical and chemical tests

Parameter	Unit	Result	Uncertainty of measurement *	Method	Method principle	TZ
omega9 fatty acids in the sample	g/100 g	4.6		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
Omega-3 and -6 fatty acids in the product	g/100 g	47.7		DGF C-VI 11e(18)/10a(00) mod. [DE Food], SOP:00.12100.L	GC-FID	SA
TOTOX		10.2	7%	SOP-N CH.37	Calculation	SN
Peroxide value	meqO ₂ /kg	1.97	5%	SOP 8.54.	Volumetry	SA
Acid value (mg KOH/g)	mg KOH/g fat	0.45	6%	SOP 8.55.**	Volumetry	SA

Additional information

The density declared by the customer (0.91 g/cm³) was used for the conversion.

Measured values after conversion to g / 100 ml using density:

EPA: 33.2 g

DHA: 21.7 g

Omega-3 fatty acids: 61.4 g

Measured values after conversion to 2 ml:

EPA: 664 mg

DHA: 433 mg

Omega-3 fatty acids: 1229 mg

Decision rule: If the testing laboratory issues a statement of conformity, the decision-making rule according to ch. 4.2.1 of ILAC document G8:09/2019 Guidelines for the use of decision rules and statement of conformity. In such a case, the measurement uncertainty is not taken into account for the conformity statement. If measurement uncertainty is included in the decision, this information is included in the statement of conformity. In such a case, proceed according to chap. 4.2.3 ILAC G8:09/2019.

Notes: SOP, ŠPP - Standard operation procedure
 ND - not detected by given method
 CFU - Colony forming unit
 NM - necessary quantity
 SN - subcontracted not accredited test
 * - the expanded measurement uncertainty, as determined by the extension coefficient $k = 2$ (with a 95% probability), does not include sampling uncertainty; if the measurement uncertainty is expressed in %, it is its relative value
 LOD – limit of detection, LOQ – limit of quantification, result between LOD and LOQ = detected
 1) - Information supplied by customer
 Unless otherwise stated in the notes, the place of the tests performance is workplace No. 1 - Prague - of EUROFINS CZ testing laboratory.

TZ - type of test

A - test within the accreditation scope of EUROFINS CZ

N - test outside of the accreditation scope of EUROFINS CZ

SA - subcontracted accredited test

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Responsible for correctness: Pavlína Hejduková

Worked out by: Pavlína Hejduková

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Test Certificate approved by:

Jitka Pinkrová
Head of Laboratory


