

The following sample(s) was/were submitted and identified by client as:

Sample Description : Fish Oil Sample 2
Sample No. : 265868
Sample Condition : Sample is contained in plastic bottle
Date Received : 9-Jul-2024 Date Commenced : 9-Jul-2024

We have tested the samples submitted and the following results were obtained:

Test Items	Method	Unit(s)	LOD	LOQ	Result(s)
Free Fatty Acid	AOCS Ca 5a-40 (2017) Titrimetric				
-Free Fatty Acid (palmitic acid)		%	-	-	2.81
-Free Fatty Acid (lauric acid)		%	-	-	2.20
-Free Fatty Acid (stearic acid)		%	-	-	2.73
-Free Fatty Acid (myristic acid)		%	-	-	2.50
-Free Fatty Acid (oleic acid)		%	-	-	3.10
-Free Fatty Acid (arachidic acid)		%	-	-	3.44
Iodine value (wijs method)	AOCS Cd 1b-87 (2017)	g I2/100g	-	-	154.65
Peroxide Value	AOCS Cd 8b-90 (2017)	milliequivalents/Kg	-	-	3.86
Arsenic (As)	SO-(ID)-[H&N]AN-026 (ICPMS) ICPMS	mg/Kg	0.01	0.03	7.8
Cadmium (Cd)	SO-(ID)-[CRS]AN-026 (ICP-MS) (Refer to SNI 7709 : 2019 Lampiran A10.1)	mg/Kg	0.01	0.03	Not detected
Lead (Pb)	SO-(ID)-[CRS]AN-026 (ICP-MS) (Refer to SNI 7709 : 2019 Lampiran A10.1)	mg/Kg	0.01	0.02	Not detected
Mercury (Hg)	SO-(ID)-[CRS]AN-026 (ICP-MS) (Refer to SNI 7709 : 2019 Lampiran A10.2)	mg/Kg	0.01	0.02	Not detected
Fatty Acid Composition	SO-(ID)-[CRS]AN-069 (GC-FID) AOAC 996.06 2016				

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Test Items	Method	Unit(s)	LOD	LOQ	Result(s)
-Butyric acid (C4:0)		%	-	0.01	Less than 0.01
-Caproic acid (C6:0)		%	-	0.01	Less than 0.01
-Caprylic acid (C8:0)		%	-	0.01	Less than 0.01
-Capric acid (C10:0)		%	-	0.01	Less than 0.01
-Lauric acid (C12:0)		%	-	0.01	0.10
-Tridecanoic acid (C13:0)		%	-	0.01	0.06
-Myristic acid (C14:0)		%	-	0.01	9.32
-Myristoleic acid (C14:1n9)		%	-	0.01	0.20
-Pentadecanoic acid (C15:0)		%	-	0.01	0.76
-Pentadecenoic acid (C15:1n5)		%	-	0.01	Less than 0.01
-Palmitic acid (C16:0)		%	-	0.01	21.40
-Palmitoleic acid (C16:1n7)		%	-	0.01	7.92
-Heptadecanoic acid (C17:0)		%	-	0.01	1.37
-Heptadecenoic acid (C17:1n7)		%	-	0.01	0.29
-Stearic acid (C18:0)		%	-	0.01	4.50
-trans-9-Elaidic Acid (C18:1n9t)		%	-	0.01	0.12
-Oleic Acid (C18:1n9)		%	-	0.01	9.33
-Linolelaidic Acid (C18:2n6t)		%	-	0.01	0.11
-Linoleic acid (C18:2n6)		%	-	0.01	1.40
-Arachidic acid (C20:0)		%	-	0.01	0.47
-gamma-Linolenic acid (C18:3n6)		%	-	0.01	0.51
-Eicosenoic acid (20:1n9)		%	-	0.01	1.97
-alpha-Linolenic acid (ALA, C18:3n3)		%	-	0.01	1.17
-Henicosanoic acid (C21:0)		%	-	0.01	0.07
-Eicosadienoic acid (C20:2)		%	-	0.01	0.27
-Behenic acid (C22:0)		%	-	0.01	0.24
-cis-8,11,14-Eicosatrienoic acid (C20:3n6)		%	-	0.01	0.21
-Erucic acid (C22:1n9)		%	-	0.01	2.95
-cis-11,14,17-Eicosatrienoic acid (C20:3n3)		%	-	0.01	0.10
-Tricosanoic acid (C23:0)		%	-	0.01	0.61
-Arachidonic acid (20:4n6)		%	-	0.01	1.96
-Docosadienoic acid (22:2n6)		%	-	0.01	Less than 0.01
-Lignoceric acid (C24:0)		%	-	0.01	1.75
-cis-5,8,11,14,17-Eicosapentaenoic acid (EPA, C20:5n3)		%	-	0.01	12.96

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Test Items	Method	Unit(s)	LOD	LOQ	Result(s)
-Nervonic acid (C24:1n9)		%	-	0.01	0.56
-cis-4,7,10,13,16,19-Docosah exaenoic acid (DHA,C22:6n3)		%	-	0.01	17.29

Remark : 1. LOD = "Limit of Detection"

2. Less than = Lower than LOQ "Limit of Quantitation"

***** End of Report *****

Signed for and on behalf of
P.T. SGS Indonesia



M Yusuf Suryanata Kusumah
Food Laboratory Assistant Manager

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