

ANALYSIS REPORT

To: MICHELLE GARIS (E)
MCROBERTS SALES CO INC

CC:

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Sample No.: L2015576-3 Receipt Date: 07/22/2020
Report Date: 08/13/2020

BUTTERFISH 1/24.1LB

PK3/26/2020 SFL LOT#141174

Test Code	Assay / Analyte	Result	Units
MFDF	Moisture, 100C (sugar, dairy, marine)		
	Moisture	74.3	%
FANL	Fat by GC (total, sat., & monounsatur.)		
	Saturated Fatty Acids	2.28	g/100g
	Monounsaturated Fatty Acids	2.46	g/100g
	Trans Fatty Acids	< 0.0400	g/100g
	Polyunsaturated Fatty Acids	1.94	g/100g
	Total Fat	7.43	g/100g
	C18:2n6 Linoleic	0.0737	g/100g
	Omega 3 Fatty Acids	1.61	g/100g
	Omega 6 Fatty Acids	0.298	g/100g
	C22:6n3 Docosahexaenoic	0.894	g/100g
	C20:4n6 Arachidonic	0.0950	g/100g
	C20:5n3 Eicosapentaenoic	0.294	g/100g
	C18:3n3 Linolenic	0.117	g/100g
IFMS	Total Iodine Analysis by ICP-MS		
	Iodine	2.17	ppm
NI	Nickel		
	Nickel	< 2.50	ppm
ICPHM	Heavy Metals via ICP-MS		
	Selenium	0.724	ppm
FOA	Folic acid		

Person responsible for report content: Karen Regina, Manager, Chemistry Laboratories.

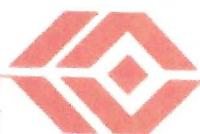
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CH2020081321350087

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Test Code	Assay / Analyte	Result	Units
NIAB	Niacin	0.184	ppm
B5LCMS	Pantothenic Acid	23.6	ppm
B1LC	Thiamine (Vit. B1) by HPLC	2.78	ppm
B2LC	Riboflavin, by HPLC	2.42	ppm
B6LC	Vitamin B6 (Pyridoxine) by HPLC	2.01	ppm
B12	Vitamin B12 (cyanocobalamin)	0.790	ppm
AULC	Vitamin A - retinol and esters	0.0780	ppm
VDLL	Vitamin D (foods and feeds)	1770	IU A/lb
VITE	Vitamin E (as tocopherol acetate)	0.713	IU D/g
FAPR	Fatty acid profile from FANL/FANO	0.420	mg/100g
	C6:0 Caproic	< 0.100	%
	C7:0 Heptanoic	< 0.100	%
	C8:0 Caprylic	< 0.100	%
	C9:0 Nonanoic	< 0.100	%
	C10:0 Capric	< 0.100	%
	C11:0 Undecanoic	< 0.100	%
	C12:0 Lauric	< 0.100	%
	C13:0 Tridecanoic	< 0.100	%
	C14:0 Myristic	3.75	%
	C14:1n5 Myristoleic	< 0.100	%
	C15:0 Pentadecanoic	1.02	%
	C15:1n5 10-Pentadecenoic	< 0.100	%

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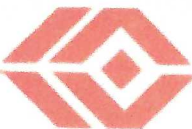
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FAPR	Fatty acid profile from FANL/FANO		
	C16:0 Palmitic	19.2	%
	C16:1n7 Palmitoleic	3.76	%
	C17:0 Margaric	1.57	%
	C17:1n7 Margaroleic	< 0.100	%
	C16:2 Hexadecadienoic	< 0.100	%
	C18:0 Stearic	4.85	%
	C18:1n9T Elaidic	0.240	%
	C16:3n4 Hexadecatrienoic	< 0.100	%
	C18:1n9C Oleic	21.7	%
	C18:1n7C Vaccenic	2.39	%
	C18:1 Other cis Isomers	0.440	%
	C19:0 Nonadecanoic	0.350	%
	C18:2 Other trans Isomers	0.320	%
	C16:4 Hexadecatetraenoic	< 0.100	%
	C18:2n6 Linoleic	1.04	%
	C20:0 Arachidic	0.430	%
	C18:3 Trans Isomers	< 0.100	%
	C18:3n6 Gamma Linolenic	0.140	%
	C18:3 Octadecatrienoic	< 0.100	%
	C20:1n9 cis Eicosenoic	3.16	%
	C18:3n3 Linolenic	1.69	%
	C21:0 Heneicosanoic	0.140	%
	C18:4n3 Octadecatetraenoic	0.740	%
	C20:2n6 Eicosadienoic	0.330	%
	C22:0 Behenic	0.260	%
	C20:3n6 Homo-Gamma-Linolenic	0.130	%
	C22:1n11 Docosaenoic	0.580	%
	C22:1n9 Erucic	1.44	%
	C20:3n3 Eicosatrienoic	0.570	%
	C20:4n6 Arachidonic	1.39	%
	C23:0 Tricosanoic	< 0.100	%

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FAPR	Fatty acid profile from FANL/FANO		
	C20:4n3 Eicosatetraenoic	0.680	%
	C22:2n6 Docosadienoic	< 0.100	%
	C24:0 Lignoceric	< 0.100	%
	C20:5n3 Eicosapentaenoic	4.20	%
	C24:1n9 Nervonic	1.01	%
	C21:5 Heneicosapentaenoic	0.200	%
	C22:5n6 Docosapentaenoic	0.740	%
	C22:5n3 Docosapentaenoic	2.41	%
	C22:6n3 Docosahexaenoic	12.4	%
	Others	6.35	%

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