

**Silliker, JR Laboratories**  
 12-3871 North Fraser Way, Burnaby, BC V5J 5G6  
 604/ 432 9311 Fax 604/ 432 7768

<b>COA No:</b>	BRN-38948227-0
<b>Supersedes:</b>	BRN-38716538-0
<b>COA Date</b>	4/26/16
<b>Page 1 of 3</b>	

**TO:**  
 Ms. Shirley Zhu  
 Quality Assurance Manager  
 Seven Seas Fish Co., Ltd  
 12411 Vulcan Way  
 Richmond, BC V6V 1J7

<b>Received From:</b>	Richmond, BC
<b>Received Date:</b>	1/22/16

<b>Location of Test: (except where noted)</b> Burnaby, BC
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**Analytical Results**

**Desc. 1:** Pasteurized Caviar (WO-14963) **Laboratory ID:** 358460033

**Condition Rec'd:** NORMAL

**Temp Rec'd (°C):** -3.4

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Method</u>	<u>Test Date</u>	<u>Loc.</u>
Fat by GC			AOAC 996.06	QA-9901-2056	4/26/16	MRK
Total Fat as Triglycerides by GC	11.11	g/100g				
Saturated Fatty Acids	2.34	g/100g				
cis-Monounsaturated Fatty Acids	3.18	g/100g				
cis-Polyunsaturated Fatty Acids	5.12	g/100g				
<b>Omega-6 Fatty Acids</b>	<b>0.40</b>	<b>g/100g</b>				
<b>Omega-3 Fatty Acids</b>	<b>4.60</b>	<b>g/100g</b>				
Trans Fatty Acids	<0.01	g/100g				
Conjugated Linoleic Acid	<0.01	g/100g				
Fatty Acid Profile			AOCS Ce 1b-89 (1999)	2056/SL-0250-4904	2/5/16	MRK
4:0 Butanoic (Butyric)	<0.01	% FA of Total FA				
6:0 Hexanoic (Caproic)	<0.01	% FA of Total FA				
8:0 Octanoic (Caprylic)	<0.01	% FA of Total FA				
10:0 Decanoic (Capric)	<0.01	% FA of Total FA				
12:0 Dodecanoic (Lauric)	0.10	% FA of Total FA				
14:0 Tetradecanoic (Myristic)	4.46	% FA of Total FA				
14:1 Tetradecenoic (Myristoleic)	<0.01	% FA of Total FA				
15:0 Pentadecanoic	0.61	% FA of Total FA				
15:1 Pentadecenoic	<0.01	% FA of Total FA				
16:0 Hexadecanoic (Palmitic)	11.26	% FA of Total FA				
16:1 n-9 Hexadecenoic	0.37	% FA of Total FA				
16:1 n-7 Hexadecenoic (Palmitoleic)	4.85	% FA of Total FA				
16:1 n-5 Hexadecenoic	0.17	% FA of Total FA				
16:2 n-6 Hexadecadienoic	0.02	% FA of Total FA				
16:2 n-4 Hexadecadienoic	0.14	% FA of Total FA				
16:3 n-4 Hexadecatrienoic	0.02	% FA of Total FA				
16:3 n-3 Hexadecatrienoic	<0.01	% FA of Total FA				
16:3 n-1 Hexadecatrienoic	0.17	% FA of Total FA				
16:4 n-3 Hexadecatetraenoic	0.01	% FA of Total FA				
16:4 n-1 Hexadecatetraenoic	0.05	% FA of Total FA				
17:0 Heptadecanoic (Margaric)	0.56	% FA of Total FA				
17:1 Heptadecenoic (Margaroleic)	0.89	% FA of Total FA				
18:0 Octadecanoic (Stearic)	4.97	% FA of Total FA				

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**CERTIFICATE OF ANALYSIS**

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18:1 n-9 Octadecenoic (Oleic)	17.95	% FA of Total FA				
18:1 n-7 Octadecenoic	2.52	% FA of Total FA				
18:1 n-5 Octadecenoic	0.43	% FA of Total FA				
18:2 n-9 Octadecadienoic	<0.01	% FA of Total FA				
18:2 n-6 Octadecadienoic (Linoleic)	1.25	% FA of Total FA				
18:2 n-4 Octadecadienoic	0.19	% FA of Total FA				
18:3 n-6 Octadecatrienoic	0.02	% FA of Total FA				
18:3 n-4 Octadecatrienoic	0.15	% FA of Total FA				
18:3 n-3 Octadecatrienoic (Linolenic)	1.08	% FA of Total FA				
18:3 n-1 Octadecatrienoic	<0.01	% FA of Total FA				
18:4 n-3 Octadecatetraenoic	0.89	% FA of Total FA				
18:4 n-1 Octadecatetraenoic	0.41	% FA of Total FA				
20:0 Eicosanoic (Arachidic)	0.04	% FA of Total FA				
20:1 n-11+13 Eicosenoic	0.53	% FA of Total FA				
20:1 n-9 Eicosenoic	0.90	% FA of Total FA				
20:1 n-7 Eicosenoic	0.34	% FA of Total FA				
20:1 n-5 Eicosenoic	<0.01	% FA of Total FA				
20:2 n-6 Eicosadienoic	0.31	% FA of Total FA				
20:3 n-6 Eicosatrienoic	0.14	% FA of Total FA				
20:3 n-3 Eicosatrienoic	0.14	% FA of Total FA				
20:4 n-6 Eicosatetraenoic (Arachidic)	1.58	% FA of Total FA				
20:4 n-3 Eicosatetraenoic	2.12	% FA of Total FA				
20:5 n-3 Eicosapentaenoic (EPA)	13.68	% FA of Total FA				
21:5 n-3 Heneicosapentaenoic	0.31	% FA of Total FA				
22:0 Docosanoic (Behenic)	0.03	% FA of Total FA				
22:1 n-11+13 Docosaenoic	0.23	% FA of Total FA				
22:1 n-9 Docosaenoic	0.23	% FA of Total FA				
22:1 n-7 Docosaenoic	0.04	% FA of Total FA				
22:4 n-6 Docosatetraenoic	0.07	% FA of Total FA				
22:4 n-3 Docosatetraenoic	0.03	% FA of Total FA				
22:5 n-6 Docosapentaenoic	0.36	% FA of Total FA				
22:5 n-3 Docosapentaenoic	4.92	% FA of Total FA				
22:6 n-3 Docosahexaenoic (DHA)	20.00	% FA of Total FA				

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24:0 Tetracosanoic (Lignoceric)	<0.01	% FA of Total FA				
24:1 Tetracosanoic (Nervonic)	0.40	% FA of Total FA				
Total Saturates	22.03	% FA of Total FA				
Total cis-Monounsaturated Fatty Aci	29.85	% FA of Total FA				
Total cis-Polyunsaturated Fatty Acid	48.06	% FA of Total FA				
<b>Omega-6 Fatty Acids</b>	<b>3.75</b>	<b>% FA of Total FA</b>				
<b>Omega-3 Fatty Acids</b>	<b>43.18</b>	<b>% FA of Total FA</b>				
ICP-MS Sample Prep	Acid Digest -		EPA 3050b		1/25/16	
<b>Mercury</b>	<b>&lt;0.005</b>	<b>ppm (w/w)</b>	EPA 3050/6020 USP730	M-C043	1/27/16	

  
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 Cathy Shevchuk Laboratory Director

**Noted Test Locations:** MRK-Silliker, Canada Co., 90 Gough Road, Unit 4, Markham, Ontario L3R 5V5

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