

CERTIFICATE OF ANALYSIS

COA No:	BRN-38948226-0
Supersedes:	BRN-38716537-0
COA Date	4/26/16
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Silliker, JR Laboratories

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

TO:

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

Received From: Richmond, BC Received Date: 1/22/16

Location of Test: (except where noted) Burnaby, BC

Analytical Results

Desc. 1: Albacore Tuna (WO-14576) Laboratory ID: 358460016

NORMAL -3.4

Condition Rec'd: Temp Rec'd (°C): **Analyte** Result Units Method Reference Method Test Date Loc. 4/26/16 MRK Fat by GC AOAC 996.06 QA-9901-2056 Total Fat as Triglycerides by GC 5.70 g/100g Saturated Fatty Acids 1.64 g/100g cis-Monounsaturated Fatty Acids 1.36 g/100g cis-Polyunsaturated Fatty Acids 2.46 g/100g Omega-6 Fatty Acids 0.22 g/100g Omega-3 Fatty Acids 2.21 g/100g Trans Fatty Acids <0.01 g/100g Conjugated Linoleic Acid <0.01 g/100g AOCS Ce 1b-89 (1999) 2056/SL-0250-4904 2/5/16 MRK Fatty Acid Profile 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) 0.05 % FA of Total FA 14:0 Tetradecanoic (Myristic) 3.11 % FA of Total FA 14:1 Tetradecenoic (Myristoleic) < 0.01 % FA of Total FA 15:0 Pentadecanoic 0.78 % FA of Total FA 15:1 Pentadecenoic < 0.01 % FA of Total FA 16:0 Hexadecanoic (Palmitic) 18.87 % FA of Total FA 16:1 n-9 Hexadecenoic 0.31 % FA of Total FA 16:1 n-7 Hexadecenoic (Palmitoleic 3.36 % FA of Total FA 16:1 n-5 Hexadecenoic 0.14 % FA of Total FA 16:2 n-6 Hexadecadienoic 0.02 % FA of Total FA 16:2 n-4 Hexadecadienoic 0.12 % 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 0.20 % FA of Total FA 16:4 n-3 Hexadecatetraenoic 0.03 % FA of Total FA 16:4 n-1 Hexadecatetraenoic 0.05 % FA of Total FA 0.89 % FA of Total FA 17:0 Heptadecanoic (Margaric) 17:1 Heptadecenoic (Margaroleic) 0.58 % FA of Total FA 18:0 Octadecanoic (Stearic) 5.89 % FA of Total FA

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TO:

Ms. Shirley Zhu Quality Assurance Manager Seven Seas Fish Co., Ltd 12411 Vulcan Way Richmond, BC V6V 1J7 Received From: Richmond, BC
Received Date: 1/22/16

Location of Test: (except where noted)

Burnaby, BC

Analytical Results

Desc. 1: Albacore Tuna (WO-14576) **Laboratory ID:** 358460016

Method Reference

Condition Rec'd: NORMAL Temp Rec'd (°C): -3.4

Test Date Loc.

Result Units **Analyte** 18:1 n-9 Octadecenoic (Oleic) 12.84 % FA of Total FA 18:1 n-7 Octadecenoic 2.32 % FA of Total FA 18:1 n-5 Octadecenoic 0.17 % FA of Total FA 18:2 n-9 Octadecadienoic 0.11 % FA of Total FA 18:2 n-6 Octadecadienoic (Linoleic) 1.24 % FA of Total FA 18:2 n-4 Octadecadienoic 0.08 % FA of Total FA 18:3 n-6 Octadecatrienoic 0.09 % FA of Total FA 18:3 n-4 Octadecatrienoic < 0.01 % FA of Total FA 18:3 n-3 Octadecatrienoic (Linolenic 0.58 % FA of Total FA 18:3 n-1 Octadecatrienoic < 0.01 % FA of Total FA 18:4 n-3 Octadecatetraenoic 1.21 % FA of Total FA 18:4 n-1 Octadecatetraenoic < 0.01 % FA of Total FA 20:0 Eicosanoic (Arachidic) 0.22 % FA of Total FA 20:1 n-11+13 Eicosenoic 0.61 % FA of Total FA 20:1 n-9 Eicosenoic 1.80 % FA of Total FA 20:1 n-7 Eicosenoic 0.20 % FA of Total FA 20:1 n-5 Eicosenoic < 0.01 % FA of Total FA 20:2 n-6 Ficosadienoic 0.28 % FA of Total FA 20:3 n-6 Eicosatrienoic 0.11 % FA of Total FA 0.24 % FA of Total FA 20:3 n-3 Ficosatrienoic 20:4 n-6 Eicosatetraenoic (Arachido 1.44 % FA of Total FA 20:4 n-3 Eicosatetraenoic 0.57 % FA of Total FA 20:5 n-3 Eicosapentaenoic (EPA) 8.42 % FA of Total FA 21:5 n-3 Heneicosapentaenoic 0.24 % FA of Total FA 22:0 Docosanoic (Behenic) 0.14 % FA of Total FA 22:1 n-11+13 Docosaenoic 1.34 % FA of Total FA 22:1 n-9 Docosaenoic 0.28 % FA of Total FA 22:1 n-7 Docosaenoic 0.08 % FA of Total FA 22:4 n-6 Docosatetraenoic 0.08 % FA of Total FA 22:4 n-3 Docosatetraenoic 0.03 % FA of Total FA 22:5 n-6 Docosapentaenoic 0.72 % FA of Total FA 22:5 n-3 Docosapentaenoic 1.45 % FA of Total FA 22:6 n-3 Docosahexaenoic (DHA) 27.67 % FA of Total FA

Method

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TO:

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

Received From:	Richmond, BC
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Location of Test: (except where noted)
Burnaby, BC

Analytical Results

Desc. 1: Albacore Tuna (WO-14576) **Laboratory ID:** 358460016

Condition Rec'd: NORMAL Temp Rec'd (°C): -3.4

1/27/16

Analyte Result Units Method Reference Method Test Date Loc.

0.09 % FA of Total FA 24:0 Tetracosanoic (Lignoceric) 24:1 Tetracosaenoic (Nervonic) 0.89 % FA of Total FA **Total Saturates** 30.04 % FA of Total FA Total cis-Monounsaturated Fatty Aci 24.92 % FA of Total FA Total cis-Polyunsaturated Fatty Acid 45.00 % FA of Total FA Omega-6 Fatty Acids 3.98 % FA of Total FA Omega-3 Fatty Acids 40.44 % FA of Total FA <1.0 mg/100g AOAC 977.13

 Histamine
 <1.0 mg/100g</th>
 AOAC 977.13
 M-C286
 2/4/16

 ICP-MS Sample Prep
 Acid Digest EPA 3050b
 1/25/16

 Mercury
 0.274 ppm (w/w)
 EPA 3050/6020 USP730 M-C043

Cathy Shevchuk Laboratory Director

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

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