

**CERTIFICATE OF ANALYSIS**

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

|                    |                |
|--------------------|----------------|
| <b>COA No:</b>     | BRN-39584981-0 |
| <b>Supersedes:</b> | BRN-39575340-0 |
| <b>COA Date</b>    | 11/28/16       |
| <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> | 11/15/16     |

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

| <b>Desc. 1:</b>                     | <b>Desc. 2:</b> | <b>Laboratory ID:</b> | <b>Condition Rec'd:</b> | <b>Temp Rec'd (°C):</b> |                  |             |
|-------------------------------------|-----------------|-----------------------|-------------------------|-------------------------|------------------|-------------|
| Salmon Portion                      | WO16827         | 364977911             | NORMAL                  | -9.6                    |                  |             |
| <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            | 11/24/16         | MRK         |
| Total Fat as Triglycerides by GC    | 5.89            | g/100g                |                         |                         |                  |             |
| Saturated Fatty Acids               | 1.15            | g/100g                |                         |                         |                  |             |
| cis-Monounsaturated Fatty Acids     | 3.18            | g/100g                |                         |                         |                  |             |
| cis-Polyunsaturated Fatty Acids     | 1.31            | g/100g                |                         |                         |                  |             |
| Omega-6 Fatty Acids                 | 0.17            | g/100g                |                         |                         |                  |             |
| Omega-3 Fatty Acids                 | 1.10            | g/100g                |                         |                         |                  |             |
| Trans Fatty Acids                   | <0.05           | g/100g                |                         |                         |                  |             |
| Conjugated Linoleic Acid            | <0.01           | g/100g                |                         |                         |                  |             |
| Fatty Acid Profile                  |                 |                       | AOCS Ce 1b-89 (1999)    | 2056/SL-0250-4904       | 11/28/16         | 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)            | 0.04            | % FA of Total FA      |                         |                         |                  |             |
| 14:0 Tetradecanoic (Myristic)       | 3.96            | % FA of Total FA      |                         |                         |                  |             |
| 14:1 Tetradecenoic (Myristoleic)    | 0.06            | % FA of Total FA      |                         |                         |                  |             |
| 15:0 Pentadecanoic                  | 0.35            | % FA of Total FA      |                         |                         |                  |             |
| 15:1 Pentadecenoic                  | <0.01           | % FA of Total FA      |                         |                         |                  |             |
| 16:0 Hexadecanoic (Palmitic)        | 13.34           | % FA of Total FA      |                         |                         |                  |             |
| 16:1 n-9 Hexadecenoic               | 0.12            | % FA of Total FA      |                         |                         |                  |             |
| 16:1 n-7 Hexadecenoic (Palmitoleic) | 4.76            | % FA of Total FA      |                         |                         |                  |             |
| 16:1 n-5 Hexadecenoic               | 0.21            | % FA of Total FA      |                         |                         |                  |             |
| 16:2 n-6 Hexadecadienoic            | 0.02            | % FA of Total FA      |                         |                         |                  |             |
| 16:2 n-4 Hexadecadienoic            | 0.18            | % FA of Total FA      |                         |                         |                  |             |
| 16:3 n-4 Hexadecatrienoic           | 0.02            | % FA of Total FA      |                         |                         |                  |             |
| 16:3 n-3 Hexadecatrienoic           | 0.02            | % FA of Total FA      |                         |                         |                  |             |
| 16:3 n-1 Hexadecatrienoic           | 0.13            | % FA of Total FA      |                         |                         |                  |             |
| 16:4 n-3 Hexadecatetraenoic         | 0.04            | % FA of Total FA      |                         |                         |                  |             |
| 16:4 n-1 Hexadecatetraenoic         | 0.04            | % FA of Total FA      |                         |                         |                  |             |
| 17:0 Heptadecanoic (Margaric)       | 0.20            | % FA of Total FA      |                         |                         |                  |             |
| 17:1 Heptadecenoic (Margaroleic)    | 0.27            | % FA of Total FA      |                         |                         |                  |             |
| 18:0 Octadecanoic (Stearic)         | 2.39            | % FA of Total FA      |                         |                         |                  |             |

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| <b>Page 2 of 3</b> |                |

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**Analytical Results**

**Desc. 1:** Salmon Portion **Laboratory ID:** 364977911  
**Desc. 2:** WO16827 **Condition Rec'd:** NORMAL  
**Temp Rec'd (°C):** -9.6

| <u>Analyte</u>                        | <u>Result</u> | <u>Units</u>     | <u>Method Reference</u> | <u>Method</u> | <u>Test Date</u> | <u>Loc.</u> |
|---------------------------------------|---------------|------------------|-------------------------|---------------|------------------|-------------|
| 18:1 n-9 Octadecenoic (Oleic)         | 14.84         | % FA of Total FA |                         |               |                  |             |
| 18:1 n-7 Octadecenoic                 | 3.19          | % FA of Total FA |                         |               |                  |             |
| 18:1 n-5 Octadecenoic                 | 0.72          | % FA of Total FA |                         |               |                  |             |
| 18:2 n-9 Octadecadienoic              | 0.06          | % FA of Total FA |                         |               |                  |             |
| 18:2 n-6 Octadecadienoic (Linoleic)   | 1.78          | % FA of Total FA |                         |               |                  |             |
| 18:2 n-4 Octadecadienoic              | 0.13          | % FA of Total FA |                         |               |                  |             |
| 18:3 n-6 Octadecatrienoic             | 0.04          | % FA of Total FA |                         |               |                  |             |
| 18:3 n-4 Octadecatrienoic             | 0.02          | % FA of Total FA |                         |               |                  |             |
| 18:3 n-3 Octadecatrienoic (Linolenic) | 0.64          | % FA of Total FA |                         |               |                  |             |
| 18:3 n-1 Octadecatrienoic             | 0.07          | % FA of Total FA |                         |               |                  |             |
| 18:4 n-3 Octadecatetraenoic           | 0.64          | % FA of Total FA |                         |               |                  |             |
| 18:4 n-1 Octadecatetraenoic           | 0.14          | % FA of Total FA |                         |               |                  |             |
| 20:0 Eicosanoic (Arachidic)           | 0.11          | % FA of Total FA |                         |               |                  |             |
| 20:1 n-11+13 Eicosenoic               | 13.28         | % FA of Total FA |                         |               |                  |             |
| 20:1 n-9 Eicosenoic                   | 3.93          | % FA of Total FA |                         |               |                  |             |
| 20:1 n-7 Eicosenoic                   | 0.34          | % FA of Total FA |                         |               |                  |             |
| 20:1 n-5 Eicosenoic                   | 0.11          | % FA of Total FA |                         |               |                  |             |
| 20:2 n-6 Eicosadienoic                | 0.37          | % FA of Total FA |                         |               |                  |             |
| 20:3 n-6 Eicosatrienoic               | 0.09          | % FA of Total FA |                         |               |                  |             |
| 20:3 n-3 Eicosatrienoic               | 0.14          | % FA of Total FA |                         |               |                  |             |
| 20:4 n-6 Eicosatetraenoic (Arachidic) | 0.29          | % FA of Total FA |                         |               |                  |             |
| 20:4 n-3 Eicosatetraenoic             | 0.79          | % FA of Total FA |                         |               |                  |             |
| 20:5 n-3 Eicosapentaenoic (EPA)       | 5.05          | % FA of Total FA |                         |               |                  |             |
| 21:5 n-3 Heneicosapentaenoic          | 0.21          | % FA of Total FA |                         |               |                  |             |
| 22:0 Docosanoic (Behenic)             | 0.04          | % FA of Total FA |                         |               |                  |             |
| 22:1 n-11+13 Docosaenoic              | 11.61         | % FA of Total FA |                         |               |                  |             |
| 22:1 n-9 Docosaenoic                  | 1.20          | % FA of Total FA |                         |               |                  |             |
| 22:1 n-7 Docosaenoic                  | 0.16          | % FA of Total FA |                         |               |                  |             |
| 22:4 n-6 Docosatetraenoic             | 0.05          | % FA of Total FA |                         |               |                  |             |
| 22:4 n-3 Docosatetraenoic             | 0.06          | % FA of Total FA |                         |               |                  |             |
| 22:5 n-6 Docosapentaenoic             | 0.27          | % FA of Total FA |                         |               |                  |             |
| 22:5 n-3 Docosapentaenoic             | 1.91          | % FA of Total FA |                         |               |                  |             |
| 22:6 n-3 Docosahexaenoic (DHA)        | 9.96          | % FA of Total FA |                         |               |                  |             |

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**Temp Rec'd (°C):** -9.6

| <u>Analyte</u>                       | <u>Result</u> | <u>Units</u>     | <u>Method Reference</u> | <u>Method</u> | <u>Test Date</u> | <u>Loc.</u> |
|--------------------------------------|---------------|------------------|-------------------------|---------------|------------------|-------------|
| 24:0 Tetracosanoic (Lignoceric)      | <0.01         | % FA of Total FA |                         |               |                  |             |
| 24:1 Tetracosanoic (Nervonic)        | 1.55          | % FA of Total FA |                         |               |                  |             |
| Total Saturates                      | 20.43         | % FA of Total FA |                         |               |                  |             |
| Total cis-Monounsaturated Fatty Aci  | 56.35         | % FA of Total FA |                         |               |                  |             |
| Total cis-Polyunsaturated Fatty Acid | 23.21         | % FA of Total FA |                         |               |                  |             |
| Omega-6 Fatty Acids                  | 2.96          | % FA of Total FA |                         |               |                  |             |
| Omega-3 Fatty Acids                  | 19.46         | % FA of Total FA |                         |               |                  |             |
| C22:2 n-6 Docosadienoic              | 0.05          | % FA of Total FA |                         |               |                  |             |
| Histamine                            | <1.0          | mg/100g          | AOAC 977.13             | M-C286        | 11/22/16         |             |
| ICP-MS Sample Prep                   | Acid Digest   | -                | EPA 3050b               |               | 11/18/16         |             |
| Mercury                              | 0.026         | ppm (w/w)        | EPA 3050/6020 USP730    | M-C043        | 11/21/16         |             |

  
 Cathy Shevchuk Laboratory Director

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

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