



Authentication Report: **TRUID00032015**

Certificate of Authentication Numbers (COA): **001-TRUID00032015-001 to 001-TRUID00032015-019**

Client: **Organic Ocean Seafood Inc.**

Audit date: **April 01 2015**

Auditor(s):

Specimens analyzed: **April 22, 2015** (Specimen ST01452 re-analyzed, June 15, 2015)

Specimens analyzed by: **Dr. Rodger Gwiazdowski, TRU-ID Bioinformatics Lead**

Report generated: **June 15, 2015**

Report generated by: **Dr. Rodger Gwiazdowski**

Total samples submitted.....18

Samples found to be authentic...16

Non-specific match1

No result1

Non-conformance0

Molecular Diagnostic Test:

Molecular diagnostics in this test used Sanger sequencing of mitochondrial DNA. Samples were analyzed against the TRU-ID vertebrate and invertebrate DNA sequence library, and all samples have one of the following results.

Authenticated: The submitted sample name, and its molecular patterns agree with molecular patterns and sample names of TRU-ID reference material.

No Result: Molecular sequence quality did not pass TRU-ID quality standards for authentication.

Non-specific match: Biological properties of the sequence, specimen or lack of reference material complicate an identification.

Non-conformance: The submitted sample name, and its molecular patterns do not agree with molecular patterns and sample names of TRU-ID reference material.

Test Results:

Sample number	3 rd party lab sequence #	Specimen submitted as:	CFIA Market Name in English	CFIA Market Name in French	Authenticated Species name	Results	TRU-ID COA #
001	15-024584-01	Sockeye salmon	Red Salmon, Red Sockeye Salmon, Sockeye Salmon	Saumon Rouge, Saumon Sockeye	<i>Oncorhynchus nerka</i>	✓ Authentic	001-TRUID00032015-001
002	15-024584-02	Keta salmon	Chum Salmon, Keta Salmon, Silverbrite Salmon	Saumon Kéta	<i>Oncorhynchus keta</i>	✓ Authentic	001-TRUID00032015-002
003	15-024584-03	Chinook salmon	Chinook, Chinook Salmon, King Salmon, Pink Chinook, Red Chinook, Spring Salmon, White Chinook Chinook, Chinook Salmon, King Salmon, Pink Chinook, Red Chinook, Spring Salmon, White Chinook	Saumon De Printemps, Saumon Quint, Saumon Roi, Saumon Royal	<i>Oncorhynchus tshawytscha</i>	✓ Authentic	001-TRUID00032015-003
004	15-024584-04	Coho salmon	Blueback Salmon, Coho Salmon, Medium Red Coho Salmon	Saumon Coho, Saumon Coho Rouge Moyen	<i>Oncorhynchus kisutch</i>	✓ Authentic	001-TRUID00032015-004
005	15-024584-05	Pink salmon	Pacific Pink Salmon, Pink Salmon	Saumon Rose, Saumon Rose Du Pacifique	<i>Oncorhynchus gorbuscha</i>	✓ Authentic	001-TRUID00032015-005
ST01431	15-024584-06	Spring salmon	Chinook, Chinook Salmon, King Salmon, Pink Chinook, Red Chinook, Spring Salmon, White Chinook Chinook, Chinook Salmon, King Salmon, Pink Chinook, Red Chinook, Spring Salmon, White Chinook	Saumon De Printemps, Saumon Quint, Saumon Roi, Saumon Royal	<i>Oncorhynchus tshawytscha</i>	✓ Authentic	001-TRUID00032015-006
ST01436	15-024584-07	Sablefish portion	Black Cod, Sablefish	Morue Charbonnière	<i>Anoplopoma fimbria</i>	✓ Authentic	001-TRUID00032015-007
ST01441	15-024584-08	Sockeye salmon	Red Salmon, Red Sockeye Salmon, Sockeye Salmon	Saumon Rouge, Saumon Sockeye	<i>Oncorhynchus nerka</i>	✓ Authentic	001-TRUID00032015-008



Sample number	3 rd party lab sequence #	Specimen submitted as:	CFIA Market Name in English	CFIA Market Name in French	Authenticated Species name	Results	TRU-ID COA #
ST01446	15-024584-09	Wild sockeye salmon portion	Red Salmon, Red Sockeye Salmon, Sockeye Salmon	Saumon Rouge, Saumon Sockeye	<i>Oncorhynchus nerka</i>	✓ Authentic	001-TRUID00032015-009
ST01451	15-024584-10	Halibut	Halibut, Pacific Halibut	Flétan Du Pacifique	<i>Hippoglossus stenolepis</i>	✓ Authentic	001-TRUID00032015-010
ST01452	15-024584-11	Giant Pacific octopus	No Result	No Result	No Result	No Result	001-TRUID00032015-011
ST01456	15-024584-12	Sidestripe shrimp	No Result	No Result	No Result	No Result	001-TRUID00032015-012
ST01461	15-024584-13	Black cod	Black Cod, Sablefish	Morue Charbonnière	<i>Anoplopoma fimbria</i>	✓ Authentic	001-TRUID00032015-013
ST01462	15-024584-14	Albacore tuna	Albacore, Tuna, Albacore Tuna	Germon, Thon, Thon Germon Blanc	<i>Thunnus alalunga</i>	✓ Authentic	001-TRUID00032015-014
ST01466	15-024584-15	Keta	Chum Salmon, Keta Salmon, Silverbrite Salmon	Saumon Kéta	<i>Oncorhynchus keta</i>	✓ Authentic	001-TRUID00032015-015
ST01471	15-024584-16	Pink Salmon	Pacific Pink Salmon, Pink Salmon	Saumon Rose, Saumon Rose Du Pacifique	<i>Oncorhynchus gorbuscha</i>	✓ Authentic	001-TRUID00032015-016
ST01472	15-024584-17	Ling cod portion	Lingcod	Morue-lingue	<i>Ophiodon elongatus</i>	✓ Authentic	001-TRUID00032015-017
ST01476	15-024584-18	Coho	Blueback Salmon, Coho Salmon, Medium Red Coho Salmon	Saumon Coho, Saumon Coho Rouge Moyen	<i>Oncorhynchus kisutch</i>	✓ Authentic	001-TRUID00032015-018
ST01452	15-024584-11	Giant Pacific Octopus	Octopus	Poulpe	Non-specific match	Non-specific match	001-TRUID00032015-019

Non-authenticated results:

Tru-ID COA #	Diagnosis	Discussion
001-TRUID00032015-011	Did not amplify	Laboratory detected sufficient DNA for sample ST01452. First PCR attempt failed, and is being re-tested.
001-TRUID00032015-019	Non-Specific Match	Second PCR attempt for sample ST01452 was successful for analysis. We confirm this specimen is an octopus, but lack reference samples to authenticate this to a genus, or to a species.
001-TRUID00032015-012	Did not amplify	Laboratory could not find tissue for this specimen.

The results and conclusions presented in this report are true and accurate to the best of TRU-ID's knowledge. However, the advanced molecular diagnostics employed can very rarely give rise to inconclusive, or incongruent results, and in such cases corroboration of this result by repeat testing, or different analytical methods may be warranted. This report should not be copied or reproduced, except in its entirety.

Dr Steven Newmaster (President & Research Director, TRU-ID Ltd.)