

CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

QLF LABS SpA – Puerto Montt

Guillermo Gallardo 565

Puerto Montt, Chile

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

TESTING

This certificate is valid only when accompanied by a current scope of accreditation document. The current scope of accreditation can be verified at www.anab.org.

Jason Stine, Vice President

Expiry Date: 15 April 2026 Certificate Number: AT-3445









SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

QLF LABS SpA – Puerto Montt

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TESTING

ISO/IEC 17025 Accreditation Granted: 16 December 2025

Certificate Number: AT-3445 Certificate Expiry Date: 15 April 2026

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
рН	MQQ-055 (based on SM 4500H+ B)	Drinking, Continental, and Utility Waters	Electrometric
pH	ME-29-2007	Drinking Waters	Electrometric
Antioxidants	MQC-017	Vegetable and Fish Oils, Compound Feed, Processed Animal Protein Meal, and Fish Muscle	HPLC
Determination of Free Astaxantine	MQC-016	Animal Feed, Fish Feed, and Fish Muscle	HPLC
Determination of Total and Esterified Astaxantine	MQC-042	Animal Feed, Fish Feed, and Fish Muscle	HPLC
Ethoxyquin Residue	MQC-006	Seafood Products and Meal, Vegetable and Fish Oils, Compound Feed, Processed Animal Protein Meal, and Fish Muscle	HPLC
Vitamin C	MQC-019	Compound Feed, Vitamin Premixes, Fish Muscle, Food, Dry/Fresh and Transformed Fruits and Vegetables, and Feed Additives	HPLC

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Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Vitamin E	MQC-041	Compound Feed, Vitamin Premixes, Fish Muscle, Food, Dry/Fresh and Transformed Fruits and Vegetables, and Feed Additives	HPLC
Vitamins A, D2, and D3	MQC-020	Compound Feed, Vitamin Premixes, Fish Muscle, Food, Dry/Fresh and Transformed Fruits and Vegetables, and Feed Additives	HPLC
Conductivity	MQQ-085 (based on SM 2510 B)	Drinking, Continental and Utility Waters	Conductivity Meter
Flavor	ME-26-2013	Drinking Waters	Organoleptic
Monochloramine	ME-23-2007	Drinking, Continental, and Utility Waters	Volumetric
Odor	ME-25-2013	Drinking Waters	Organoleptic
Residual Free Chlorine	ME-33-2007	Drinking Waters	Spectrophotometric
Total and Free Chlorine	MQQ-051	Drinking, and Utility Waters	Spectrophotometric
Total Chlorine	SM 4500 Cl G	Drinking, Continental, and Utility Waters	Spectrophotometric
True Color	ME-24-2007	Drinking Waters	Visual Comparison
Turbidity	MQQ-050	Drinking and Utility Waters	NTU

Microbiological

Specific Tests and/or	Specification, Standard,	Items, Materials or	Key Equipment or
Properties Measured	Method, or Test Technique	Product Tested	Technology
Cronobacter spp and C. sakazaki	MQM-066 ISO 22964	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Flour, Animal Products and Feed, Surfaces, Utensils, and Handlers	Detection (Presence/Absence) Agar plate





Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Escherichia coli	MQM-071 ISO 7251	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Flour, Animal Products and Feed, Surfaces, Utensils, and Handlers	Detection (Presence/Absence) Tubes
Listeria monocytogenes and Listeria spp.	MQM-079 ISO 11290-1	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Meal, Animal Products, Feed, Hydrobiological Products fish and crustaceans, chilled and refrigerated live fish products. processed and chilled fish products, Surfaces, Utensils and Handlers	Detection (Presence/Absence) Agar plate
L. monocytogenes	MQM-003 NCh 2657	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Flour, and Animal Products and Feed	Detection (Presence/Absence) Agar plate
L. monocytogenes	MQM-031 Based on NCh 2657	Hands, Surfaces, and Utensils	Detection (Presence/Absence) Agar plate
Listeria spp.	MQM-047 Based on NCh 2657	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Flour, Animal Products and Feed, Surfaces, Utensils, and Handlers	Detection (Presence/Absence) Agar plate
Mesophiles, Thermophiles, Aerobes and Anaerobes	MQM-005 NCh 2731	Food, Canned Food, Fruits, Vegetables, Juices, Wines, Fat, Flour, and Animal Products and Feed	Detection (Presence/Absence) Tubes
Salmonella spp.	MQM-006 NCh 2675	Food, Fruits, Vegetables, Juices, Wines, Meat, Dairy Products, Prepared Meal, Eggs, Fat, Flour, and Animal Products and Feed	Detection (Presence/Absence) Agar plate

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Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Salmonella spp.	MQM-033 NCh 2675	Hands, Surfaces, and Utensils	Detection (Presence/Absence) Agar plate
Salmonella spp.	MQM-007 ISO 6579	Food, Fruits, Vegetables, Juices, Wines, Meat, Dairy Products, Prepared Meals, Eggs, Fat, Flour, Animal Products, Feed, Hydrobiological Products fish and crustaceans, chilled and refrigerated live fish products. processed and chilled fish products, Surfaces, Utensils and Handlers	Detection (Presence/Absence) Agar plate
Shigella spp.	MQM-082 ISO 21567	Food, Fruits, Vegetables, Premixes, Fish Muscle, Food, Dry/Fresh and Transformed Fruits and Vegetables, Feed Additives, Meal of Animal Origin and Pellets (Animal Feed), Surfaces, Utensils, Handlers, Hydrobiological Products and Fishery Products in General	Detection (Presence/Absence) Agar plate
Staphylococcus aureus – UEE	MQM-062 GOST 31746-2012 ISO 6888 3:2003 Manual Inocuidad y certificación – SERNAPESCA	Hydrobiological Products and Fishery Products in General	Detection (Presence/Absence) Agar plate
S. aureus	MQM-042 Based on NCh 2671	Handlers, Surfaces and Utensils	Detection (Presence/Absence) Agar plate
Total Coliforms – UEE	MQM-060 GOST R 52816-2007	Hydrobiological Products and Fishery Products in General	Detection (Presence/Absence) Tubes





Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Total Coliforms	MQM-074 NCh-ISO 4831	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Flour, Animal Products and Feed, Surfaces, Utensils, and Handlers	Detection (Presence/Absence) Tubes
Total Coliforms	MQM-012 Método Ministerio Salud de Japón NCh 2635/2	Food, Fruits, Vegetables, Juices, Wines, Meat, Dairy Products, Prepared Meal, Fat, Flour, Animal Products Feed, and Fishery Products in General	Detection (Presence/Absence) Agar plate
Vibrio parahaemolyticus	MQM-067 ISO 21872-1	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Flour, Animal Products and Feed, Surfaces, Utensils, Handlers, Hydrobiological Products, and Fishery Products in General	Detection (Presence/Absence) Agar plate
Aerobic Mesophiles (30°C)	MQM-075 ISO 4833-1	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Flour, Animal Products and Feed, Surfaces, Utensils and Handlers	Plate Count
Aerobic Mesophiles (35°C)	MQM-021 NCh 2659	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Flour, and Animal Products and Feed	Plate Count
Aerobic Mesophiles (35°C)	MQM-039 Standard Methods for the Examination of Dairy Products – Free Sedimentation	Free Sedimentation and Environments	Plate Count
Aerobic Mesophiles (35°C)	MQM-030 ABC Research NCh 2659	Qualification on Ambiances, Surfaces, and Utensils	Plate Count
Aerobic Mesophiles (35°C)	MQM-040 NCh 2659	Hands, Surfaces, and Utensils	Plate Count

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Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Aerobic Mesophiles and	MQM-063	Hydrobiological Products and	Plate Count
Facultative Anaerobes – UEE Bacillus cereus	GOST 10444.15-94 MQM-010 BAM Ch. 14	Fishery Products in General Food, Fruits, Vegetables, Juices, Wines, Meat, Dairy Products, Prepared Meal, Fat, Flour, and Animal Products and Feed	Plate Count
Clostridium perfringens and Sulfite-Reducing Anaerobes	MQM-011 BAM Ch. 16 NCh 2730	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Flour, and Animal Products and Feed	Plate Count
Cultivable Microorganisms (22°C)	MQM-068 UNE-EN ISO 6222:1999	Drinking, Continental, and Utility Waters	Plate Count
Enterobacteriaceae	MQM-016 NCh 2676	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Flour, and Animal Products and Feed	Plate Count
Enterobacteriaceae	MQM-076 ISO 21528	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Flour, Animal Products and Feed, Surfaces, Utensils, and Handlers	Plate Count
Enterobacteriaceae	MQM-036 Based on NCh 2676	Hands, Surfaces, and Utensils	Plate Count
E. coli	MQM-053 ISO 16649-2	Handlers, Food and Surfaces	Plate Count
E. coli	MQM-043 Based on NCh 2636	Handlers, Surfaces and Utensils	Plate Count
Fecal Enterococci	MQM-051 ISO 7899-2	Drinking, Continental, and Utility Waters	Membrane filtration
Heterotrophs	MQM-056 SM 9215-B	Drinking, Continental, and Utility Waters	Plate Count





Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
L. monocytogenes and Listeria spp.	MQM-019 ISO 11290-2 NCh 2657/2	Food, Fruits, Vegetables, Juices, Wines, Fats, Meat, Dairy Products, Prepared Meals, Sugars, Eggs, Flour, and Animal Products and Feed	Plate Count
Mold and Yeast	MQM-037 Standard Methods for the Examination of Dairy Products – Free Sedimentation	Free Sedimentation on Ambiances	Plate Count
Mold and Yeast	MQM-018 NCh 2734	Food, Fruits, Vegetables, Juices, Wines, Meat, Dairy Products, Prepared Meals, Sugar, Eggs, Fat, Flour, and Animal Products and Feed	Plate Count
Mold and Yeast	MQM-038 Based on NCh 2734	Hands, Surfaces, and Utensils	Plate Count
Mold of the genus Aspergillus	MQ <mark>M-083</mark> NCh 2735	Fish Meals and Feed	Plate Count
Molds – UEE	MQM-065 Instructions for the definition and evaluation of contamination with molds in the air and walls of the cold rooms of the Sanitary Standards for Fridges (approved by the General Sanitary Doctor of the State of the USSR on 09.29.1988 N4695-88) of the Eurasian Economic Union.; Sanitary standards for refrigerators (approved by the USSR State General Sanitary Doctor on 09.29.1988 N4695-88) of the Eurasian Economic Union	Free Sedimentation on Ambiances	Plate Count





Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Molds	MQM-064 Instructions for the definition and evaluation of contamination with molds in the air and walls of the cold rooms of the Sanitary Standards for Fridges (approved by the General Sanitary Doctor of the State of the USSR on 09.29.1988 N4695-88) of the Eurasian Economic Union.; Sanitary standards for refrigerators (approved by the USSR State General Sanitary Doctor on 09.29.1988 N4695-88) of the Eurasian Economic Union	Surfaces of Cold Room Walls	Plate Count
S. aureus-Coagulase Positive	MQM-023 NCh 2671	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meals, Sugar, Eggs, Flour, and Animal Products and Feed	Plate Count
S. aureus	MQM-041 Based on NCh 2671	Hands, Surfaces, and Utensils	Plate Count
Total Coliforms	MQM-012 Método Ministerio Salud de Japón NCh 2635/2	Food, Fruits, Vegetables, Juices, Wines, Meat, Dairy Products, Prepared Meal, Fat, Flour, Animal Products and Feed, and Fishery Products in General	Plate Count
Total Fecal Coliforms	MQM-035 Based on NCh 2635/2	Surfaces, Utensils, and Handlers	Plate Count
C. perfringens	MQM-073 DIRECTIVA 98/83 CE del consejo	Drinking, Continental, and Utility Waters	Membrane Filtration
L. monocytogenes	MQM-052 NCh 2657	Drinking and Utility Waters	Membrane Filtration
Salmonella spp.	MQM-050 SM 9260B	Drinking and Utility Waters	Membrane Filtration

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Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Total and Fecal Coliforms, and E. Coli	MQM-027 NCh 9308/1 SM 9222B, 9222D, 9222G	Detection and Counting by Chromogenic in Drinking, Continental, and Utility Waters	Membrane Filtration
Total Coliforms and E. coli	MQM-026 NCh 1620/2 ME-02-2007	Drinking, Continental, and Utility Waters	Membrane Filtration
E. coli β-glucoronidase	MQM-078 ISO 16649-3 NCh 3056	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Meal, Animal Products, Feed, Surfaces, Utensils, Handlers, Hydrobiological Products and Fishery Products in General	MPN
E. coli	MQM-017 NCh 2636	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Flour, and Animal Products and Feed	MPN
E. coli	MQM-071 ISO 7251	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Flour, Animal Products and Feed, Surfaces, Utensils, and Handlers	MPN
S. aureus-Coagulase Positive	MQM-024 NCh 2828	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Flour, and Animal Products and Feed	MPN
Total Coliforms and E. coli	MQM-025 NCh 1620/1 ME-01-2007	Drinking, Continental, and Utility Waters	MPN
Total Coliforms	MQM-074 NCh-ISO 4831	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Flour, Animal Products and Feed, Surfaces, Utensils, and Handlers	MPN

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Total Coliforms – UEE	MQM-061 GOST 26669-85 GOST R 52816-2007 ISO 4831	Hydrobiological Products and Fishery Products in General	MPN
Total and Fecal Coliforms, and <i>E. coli</i>	MQM-028 SM 9221B, 9221E, 9221F	Drinking, Continental, and Utility Waters	MPN
Total and Fecal Coliforms, and E. coli	MQM-048 Based on NCh 2635/1 NCh 2636	Manipulators, Surfaces, and Utensils	MPN
Total and Fecal Coliforms	MQM-013 NCh 2635/1	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Flour, and Animal Products and Feed	MPN
V. parahaemolyticus	MQM-055 BAM Ch. 9	Hydrobiological Products and Fishery Products in General	MPN
Aerobic Mesophiles	MQM-009 AOAC 990.12	Food, Fruits, Vegetables, Juices, Meat, Dairy Products, Prepared Meals, Wines, Fat, Flour, Animal Products, Feed, Surfaces, Utensils, and Handlers	Petrifilm
Aerobic Mesophiles	MQM-069 AOAC 986.33	Milk and Dairy Products	Petrifilm
Coliforms and E. coli	MQM-014 AOAC 991.14, 998.08	Food, Fruits, Vegetables, Meat, Dairy Products, Prepared Meals, Juices, Wines, Fat, Flour, Animal Products and Feed, Surfaces, Utensils, and Handlers	Petrifilm
Enterobacteriaceae	MQM-015 AOAC 2003.01	Food, Fruits, Vegetables, Juices, Wines, Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Fat, Flour, Animal Products and Feed, Surfaces, Utensils, and Handlers	Petrifilm
E. coli	MQM-072 AOAC 998.08	Poultry and Seafood	Petrifilm

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Fecal coliforms	MQM-014 AFNOR 3M 01/02-09/89C	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Meal, Animal Products, Feed, Surfaces, Utensils and Handlers	Petrifilm
Mold and Yeast 3M TM Rapid Yeast and Mold Petrifilm TM	MQM-058 AFNOR 3M 01/13-07-14	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Flour, Animal Products and Feed, Surfaces, Utensils, and Handlers	Petrifilm
Mold and Yeast	MQM-046 AOAC 997.02	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Flour, Animal Products and Feed, Surfaces, Utensils, and Handlers	Petrifilm
S. aureus	MQM-022 AOAC 2003.07, 2003.08	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Pastas, Flour, and Animal Products, Feed, Surfaces, Utensils, and Handlers	Petrifilm
Total Coliforms	MQM-070 AOAC 986.33, 989.10	Milk and Dairy Products	Petrifilm
E. coli O157	MQM-002 Based on AFNOR N° BIO 12/25-05/09	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Flour, Animal Products, Feed Handlers, Surfaces, Utensils, and Water	VIDAS
L. monocytogenes	MQM-004 AFNOR N° BIO 12-11-03/04	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Flour, Animal Products, Feed, Surfaces, Handler and Utensils	VIDAS

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L. monocytogenes	MQM-032 AFNOR N°BIO 12-11-03/04	Surfaces, Handler and Utensils	VIDAS
L. monocytogenes	MQM-049 AFNOR N°BIO 12/27-02/10	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Flour, Animal Products, Feed, Surfaces, Utensils and Handlers	VIDAS XPRESS
<i>Listeria</i> spp.	MQM-057 AFNOR N°BIO 12/33-05/12	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Eggs, Flour, Animal Products, and Feed on Handlers, Surfaces and Utensils	VIDAS UP
Salmonella	MQM-008 AFNOR N°BIO 12/16-09/05	Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal, Eggs, Flour, Animal Products, and Feed	VIDAS
Salmonella	MQM-034 AFNOR N°BIO 12/16-09/05	Handlers, Surfaces, and Utensils	VIDAS
Detection of SARS-CoV-2	MQV-004	Surfaces, Utensils, Handlers, and Food	Reverse Transcription and PCR
Detection of SARS-CoV-2	MQV-002	Surfaces, Utensils, Handlers, and Food	RT-qPCR
Detection of <i>Salmonella</i> and <i>L. monocytogenes</i>	MQV-008	Surfaces, Utensils, Handlers, Waters, and Food	Duplex PCR Final Point
Detection of <i>Salmonella</i> spp. and <i>L. monocytogenes</i>	MQV-014	Surfaces, Utensils, Handlers, Waters and Food	RT-qPCR
Detection of <i>S. aureus</i> and <i>E. coli</i>	MQV-007	Surfaces, Utensils, Handlers, Waters, and Food	Multiplex PCR Final Point
Detection of S. aureus, Salmonella, L. monocytogenes, and E. coli	MQV-006	Surfaces, Utensils, Handlers, Waters, and Food	Multiplex PCR Final Point
Detection of <i>S. aureus</i> , <i>E. coli</i> , <i>L. monocytogenes</i> and <i>Salmonella</i> spp.	MQV-011	Surfaces, Utensils, Handlers, Waters and Food	PCR HRM (High Resolution Melting)
Detection of S. aureus, E. coli, and L. monocytogenes	MQV-012	Surfaces, Utensils, Handlers, Waters and Food	RT-qPCR

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Detection of <i>S. aureus</i> and <i>E. coli</i>	MQV-013	Surfaces, Utensils, Handlers, Waters and Food	RT-qPCR
Appearance, Smell, Color and Taste	MQM-077 Sernapesca Safety and Certification Manual Part II: Section III Export Control and Certification and Section IV Authorization and Control of Analysis, Sampling and Samplers Entities	fish sausages, fish oil and its derivatives	Sensory Evaluation
Species, Presentation, Appearance, Parasites and their Cysts, Smell, Color, and Texture	MQM-077 Sernapesca Safety and Certification Manual Part II: Section III Export Control and Certification and Section IV Authorization and Control of Analysis, Sampling and Samplers Entities	Salmon Fillet, Fresh or Processed Fish and Cephalopods, Frozen Fish and Cephalopods (Raw and Cooked)	Sensory Evaluation
Species, Presentation, Appearance, Parasites and their Cysts, Smell, Color, Taste, and Texture	MQM-077 Sernapesca Safety and Certification Manual Part II: Section III Export Control and Certification and Section IV Authorization and Control of Analysis, Sampling and Samplers Entities	Smoked Dry, Salty and Dry Salty Fish Products, Surimi and its derivatives.	Sensory Evaluation
Species, Presentation, Appearance, Smell, Color, and Texture	MQM-077 Sernapesca Safety and Certification Manual Part II: Section III Export Control and Certification and Section IV Authorization and Control of Analysis, Sampling and Samplers Entities.	Frozen Bivalve Mollusks (Raw and Cooked)	Sensory Evaluation



Jason Stine, Vice President

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