

## TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

### Scope of Accreditation

Accredited Laboratory No. 455

**Legal Name of Accredited Laboratory:** Canadian Food Inspection Agency

Location Name or Operating as (if applicable): Dartmouth Laboratory

Address: 1992 Agency Drive, Dartmouth, NS, B3B 1Y9

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<b>SCC File Number:</b>	15582
<b>Accreditation Standard(s):</b>	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
<b>Fields of Testing:</b>	Biological Chemical/Physical
<b>Program Specialty Area:</b>	Agriculture Inputs, Food, Animal Health and Plant Protection (AFAP)
<b>Initial Accreditation:</b>	2002-07-24
<b>Most Recent Accreditation:</b>	2021-02-28
<b>Accreditation Valid to:</b>	2022-07-24

*Remarque: La présente portée d'accréditation existe également en français, sous la forme d'un document distinct.*

*Note: This scope of accreditation is also available in French as a separately issued document.*

#### **TEST METHOD DEVELOPMENT & EVALUATION AND NON-ROUTINE TESTING**

**Note: Laboratories accredited under this Program Specialty Area have demonstrated that they meet**

**ISO/IEC 17025 requirements for routine testing under the same product classification as**

*described below*

**Chemical Analysis**

*The Dartmouth Chemistry Laboratory is primarily involved in food safety issues with a focus on veterinary drug residues in fish products, shellfish toxins, and toxic elements in food and fish products. With respect to test method development and non-routine testing, the laboratory has a focus on the following:*

- 1. Development and validation of new testing methods for the screening and quantification of veterinary drug residues in fish products, shellfish toxins, and toxic elements in food and fish products.*
- 2. Modification, adaptation, improvement, and validation of existing testing methods for the screening and quantification of veterinary drug residues in fish products, shellfish toxins, and toxic elements in food and fish products.*
- 3. Development of instrumental techniques such as HPLC, LC-MSMS, ICP-MS, LC-ICP-MS, GC-MS, as related to the screening and quantification of veterinary drug residues in fish products, shellfish toxins, and toxic elements in food and fish products.*

**Microbiology Analysis**

- 1. Development and validation of analytical methods for detection, isolation, identification and characterization of microorganisms in food, water and environmental samples.*
- 2. Development, evaluation and validation of new test kits including commercial test kits for the detection and/or enumeration of microorganisms in food, water and environmental samples.*
- 3. Modification, improvement and validation of published or existing methods for detection and/or enumeration of microorganisms in food, water and environmental samples*

**Molecular Biology Analysis**

- 1. Development and validation of molecular methods for detection of bacterial pathogens and subtyping methodologies of public health significance in food, water and environmental samples.*
- 2. Development, evaluation and validation of new test kits including commercial kits for pathogen detection and/or identification in food, water and environmental samples.*
- 3. Modification, improvement and validation of published or existing methods for pathogen detection and/or identification in food, water and environmental samples.*

**4. Development, modification and validation of methodology for molecular identification of fish species.**

**ANIMAL AND PLANTS (AGRICULTURE)**

**Foods and Edible Products (Human and Animal Consumption):**

**(Chemical Examinations of Foods for Human Consumption Including Fish and Fish Products)**

SOM-DAR-CHE-001	Determination of Domoic Acid in Shellfish by LC-UV and LC-MS/MS
SOM-DAR-CHE-002	Determination of Lipophilic Shellfish Toxins in Shellfish by LC-MS/MS
SOM-DAR-CHE-012	Determination of Total Mercury in Fish, Shellfish and Food Products by CVAAS
SOM-DAR-CHE-028	Determination of Tetracyclines in Fish and Shellfish Products by LC-MS/MS
SOM-DAR-CHE-029	Determination of Sulfonamides in Fish and Shellfish Products by LC-MS/MS
SOM-DAR-CHE-030	Determination of Emamectins in Fish by LC-FLD and LC-MS/MS
SOM-DAR-CHE-036	Determination of Metals in a Variety of Foods by ICP-MS
SOM-DAR-CHE-037	Determination of Phenicols in Fish and Shellfish Products by LC-MS/MS
SOM-DAR-CHE-038	Determination of Nitrofurans Metabolites in Fish and Shellfish Products by LC-MS/MS
SOM-DAR-CHE-039	Determination of Triphenylmethane Dyes in Fish and Shellfish Products by LC-MS/MS
SOM-DAR-CHE-041	Determination of Aflatoxin M-1 in Milk by LC-FLD
SOM-DAR-CHE-048	Determination of Teflubenzuron in Fish by LC-UV
SOM-DAR-CHE-050	Determination of Fluoroquinolones and Quinolones in Fish and Shellfish Products by LC-MS/MS
SOM-DAR-CHE-051	Determination of Erythromycin in Fish and Shellfish Products by LC-MS/MS
SOM-DAR-CHE-052	Determination of Paralytic Shellfish Toxins in Shellfish by LC-FLD with Post-column Oxidation (PCOX)
SOM-DAR-CHE-053	Determination of Speciated Arsenic Compounds in Foods by LC-ICP/MS
SOM-DAR-CHE-054	Determination of Formaldehyde in Maple Syrup by Spectrofluorimetry

SOM-DAR-CHE-056	Determination of Pyrethroids in Fish by GC-MS
SOM-DAR-CHE-057	Determination of Nitroimidazoles in Fish and Shellfish Products by LC-MS/MS
SOM-DAR-CHE-058	Determination of Stilbenes in Fish and Fish Products by LC-MS/MS
SOM-DAR-CHE-059	Determination of Steroids in Fish and Fish Products by LC-MS/MS
SOM-DAR-CHE-060	Determination of Total Volatile Base Nitrogen in Fish and Fish Products by Distillation/Titration

**(Microbiological and Molecular Examinations of Foods for Human Consumption Including Fish and Fish Products)**

FDA-BAM-Chapter 9	<i>Vibrio parahaemolyticus</i> Enrichment, isolation and enumeration, Other <i>Vibrios</i> , Section A, MPN Method
CFIAFMWG-001	Enumeration of <i>Escherichia coli</i> using Compact Dry EC Medium Count Plates
CFIAFMWG-005	The DuPont™ BAX® System method for the detection of <i>Shigella</i> spp in fresh fruits and vegetables
MFHPB-03	Determination of the pH of foods including foods in hermetically sealed containers
MFHPB-10	Isolation of <i>Escherichia coli</i> O157:H7/NM from foods and environmental surface samples
MFHPB-17	Enumeration of coliforms in foods by the Hydrophobic-Grid-Membrane filter (HGMF) Method
MFHPB-18	Determination of the Aerobic Colony Count in Foods
MFHPB-19	Enumeration of Coliforms, Faecal Coliforms and of <i>E. coli</i> in Foods using the MPN Method
MFHPB-20	Isolation and Identification of <i>Salmonella</i> from Food and Environmental Samples
MFHPB-21	Enumeration of <i>Staphylococcus aureus</i> in Foods
MFHPB-23	Enumeration of <i>Clostridium perfringens</i> in Foods
MFHPB-27	Enumeration of <i>Escherichia coli</i> in Foods by the Direct Plating (DP) Method
MFHPB-30	Isolation of <i>Listeria monocytogenes</i> and other <i>Listeria</i> spp. from all Foods and Environmental Samples
MFHPB-33	Enumeration of Total Aerobic Bacteria in Food products and Food ingredients using 3M™ Petrifilm™ Aerobic Count Plates
MFHPB-34	Enumeration of <i>E.coli</i> and Coliforms in Food Products and Food Ingredients using 3M™ Petrifilm™ E. coli Count Plates
MFLP-102	Identification of <i>Vibrio parahaemolyticus</i> colonies by real-time polymerase chain reaction (qPCR)
MFLP-15	The Detection of <i>Listeria</i> Species from Environmental Surfaces Using the Dupont Qualicon BAX ® System Method and Direct Plating excluding collection of samples

MFLP-22	Characterization of Verotoxigenic <i>Escherichia coli</i> O157:H7 Colonies by Polymerase Chain Reaction (PCR) and Cloth-based Hybridization Array System (CHAS)
MFLP-25	Isolation and Identification of <i>Shigella</i> spp. From Foods
MFLP-26	Detection of <i>Shigella</i> spp. in Foods by the Polymerase Chain Reaction (PCR)
MFLP-28	The Qualicon Bax® System Method for the Detection of <i>Listeria monocytogenes</i> in a Variety of Food
MFLP-29	The Qualicon Bax® System Method for the Detection of <i>Salmonella</i> in a variety of Food and Environmental Samples
MFLP-30	Detection of <i>Escherichia coli</i> O157:H7 in Select Foods using the BAX® System <i>E. coli</i> O157:H7 MP
MFLP-42	Isolation and Enumeration of the <i>Bacillus cereus</i> Group in Foods
MFLP-52	Isolation and Identification of priority Verotoxigenic <i>Escherichia coli</i> (VTEC) in foods
MFLP-65	Detection of Staphylococcal Enterotoxins in Food Products using the VIDAS Staph Enterotoxin II (SET2), an ELFA (Enzyme Linked Fluorescent Assay) Technique
MFLP-66	Determination of Water Activity Using the Decagon Aqualab
MFLP-74	Enumeration of <i>Listeria monocytogenes</i> in Foods
MFLP-77	Detection of <i>Listeria monocytogenes</i> and other <i>Listeria</i> spp. in food products and environmental samples by the VIDAS® <i>Listeria</i> species Xpress (LSX) method
SOM-DAR-MIC-016	DNA Barcoding Generation for use in Fish Species Identification

Number of Scope Listings: 52

**Notes:**

**ISO/IEC 17025:2017:** General Requirements for the Competence of Testing and Calibration Laboratories

**RG-LAB:** SCC Requirements and Guidance for the Accreditation of Testing Laboratories

**RG-TMDNRT:** SCC Requirements and Guidance for Accreditation of Laboratories Engaged in Test Method Development and Non-Routine Testing

**SOM-DAR-CHE:** Dartmouth Laboratory - Chemistry Section Method

**SOM-DAR-MIC:** Dartmouth Laboratory - Microbiology Section Method

**MFHPB:** Microbiological Analysis of Foods Health Products and Food Branch, Health Canada Compendium of Analytical Methods

**MFLP:** Microbiological Analysis of Foods Lab Procedures, Health Canada Compendium of Analytical Methods

**CFIAFMWG:** Canadian Food Inspection Agency – Food Microbiology Working Group

**FDA-BAM:** United States Food and Drug Administration – Bacteriological

This document forms part of the Certificate of Accreditation issued by the Standards Council of Canada (SCC). The original version is available in the Directory of Accredited Laboratories on the SCC website at [www.scc.ca](http://www.scc.ca).

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