

Standards Council of Canada

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Conseil canadien des normes

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SCOPE OF ACCREDITATION

**Canadian Food Inspection Agency
DARTMOUTH LABORATORY
1992 Agency Drive
Dartmouth, NS
B3B 1Y9**

Accredited Laboratory No. 455
(Conforms with requirements of ISO/IEC 17025:2005, RG-LAB, RG-TMDNRT)

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CLIENTS SERVED: Normally Reserved for Internal Clients

FIELDS OF TESTING: Biological, Chemical/Physical

PROGRAM SPECIALTY AREA: Agriculture Inputs, Food, Animal Health and Plant Protection (PSA-AFAP) , Test Method Development and Evaluation and Non-Routine Testing

INITIAL ACCREDITATION DATE: 2002-07-24

SCOPE ISSUED ON: 2018-09-28

ACCREDITATION VALID TO: 2022-07-24

ANIMAL AND PLANTS (AGRICULTURE)

Foods and Edible Products: (Human and Animal Consumption)

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	Vibrio parahaemolyticus Enrichment, isolation and enumeration, Other Vibrios, Section A, MPN Method
CFIAFMWG-001	Enumeration of Escherichia coli 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 (HGMP) 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>Listera</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 Escherichia coli 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

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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

Notes:

ISO/IEC 17025:2005: 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 Analysis Manual

Elias Rafoul, Vice President
Accreditation Services

Date: 2018-09-28

Number of Scope Listings: 52

SCC 1003-15/582

Partner File #0

Partner: None