



## TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

### Scope of Accreditation

Accredited Laboratory No. 259

**Legal Name of Accredited Laboratory:** Canadian Food Inspection Agency - CALGARY LABORATORY

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<b>SCC File Number:</b>	15322
<b>Accreditation Standard(s):</b>	ISO/IEC 17025:2017
<b>Fields of Testing:</b>	Biological Chemical/Physical
<b>Program Specialty Area:</b>	Agriculture Inputs, Food, Animal Health and Plant Protection (AFAP) Test Method Development & Evaluation and Non-routine Testing (TMDNRT)
<b>Initial Accreditation:</b>	1997-10-08
<b>Most Recent Accreditation:</b>	2019-10-28
<b>Accreditation Valid to:</b>	2021-10-08



**ANIMAL AND PLANTS (AGRICULTURE)**

**FOODS AND EDIBLE PRODUCTS (HUMAN AND ANIMAL CONSUMPTION):**

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

***Chemical Analysis***

1. Development and validation of new testing methods for the screening and quantification of pesticide residues in various food, beverages and/or food products such as fruits, vegetables, wine, juice, tea, infant foods, grains, and agricultural matrices.
2. Modification, adaptation, improvement and validation of existing test methods for the screening of Pesticide Residues in fertilizers, and food, such as fish, pulses, wine, juice, honey, processed foods and agricultural matrices.
3. Modification, adaptation, improvement and validation of existing test methods for the screening and quantification of Environmental contaminants including dioxins, furans and PCBs in food and animal feed such as milk, fish, feed additives and fertilizers .
4. Evaluation of emerging analytical technology and development of instrumental techniques such as HPLC, LC-MSMS, UHPLC/ESI-MSMS, GC-MS, GC-MSMS, UHPLC Q-Orbitrap and GC-HRMS for screening and quantification of pesticide residues, veterinary drug residues, and environmental contaminants in matrices stated above in 1. to 3.

***Biological Analysis***

1. Development and validation of molecular and cultural analytical methods for detection, quantification, isolation, identification and characterization of microorganisms in food, water and environmental samples.
2. Modification, improvement, and validation of published or existing methods for quantification, isolation, identification and characterization of microorganisms in food, water and environmental samples.
3. Development, modification and validation of methodology for identification of meat species.

**(Biological Tests - Microbial Contaminants Unit)**

CFIAFMWG-001	Enumeration of <i>Escherichia coli</i> Using Compact Dry EC Medium Count Plates
ISO 21528	Horizontal method for the detection and enumeration of <i>Enterobacteriaceae</i>
ISO 22964	Horizontal method for the Detection of <i>Cronobacter spp.</i>
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-18	Determination of the Aerobic Colony Count in Foods Only for: Mesophilic bacteria



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 Foods and Environmental Samples
MFHPB-21	Enumeration of <i>Staphylococcus aureus</i> in Foods
MFHPB-22	Enumeration of Yeasts and Moulds in Foods
MFHPB-23	Enumeration of <i>Clostridium perfringens</i> in Foods
MFHPB-30	Isolation of <i>Listeria monocytogenes</i> and other <i>Listeria spp.</i> from Food and Environmental Samples
MFHPB-33	Enumeration of Total Aerobic Bacteria in Food Products and Food Ingredients Using 3M™ Petrifilm™ Aerobic Count Plate
MFHPB-34	Enumeration of <i>E. coli</i> and Coliforms in Food Products and Food Ingredient using 3M Petrifilm <i>E. coli</i> Plates
MFLP-15	The Detection of <i>Listeria</i> Species from Environmental Surfaces Using the Dupont Qualicon BAX® System Method and Direct Plating
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-28	The Qualicon BAX® System Method for the Detection of <i>Listeria monocytogenes</i> in a Variety of Food
MFLP-29	The BAX® System Method for the Detection of <i>Salmonella</i> in Foods and Environmental Surface 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 <i>Bacillus cereus</i> Group in Foods
MFLP-46	Isolation of Thermophilic <i>Campylobacter</i> in Foods
MFLP-52	Isolation and Identification of Priority Verotoxigenic <i>E. coli</i> (VTEC) in Foods
MFLP-53	Identification of <i>Listeria monocytogenes</i> colonies by polymerase chain reaction (PCR) and cloth-based hybridization array system (CHAS)
MFLP-66	Determination of Water Activity Using the Decagon Aqualab
MFLP-74	Enumeration of <i>Listeria monocytogenes</i> in Food
MFLP-75	Procedure for the Isolation of <i>Salmonella</i> species by the Modified Semi-Solid Rappaport Vassiliadis (MSRV) Method
MFLP-76	The Dupont Qualicon BAX® system real-time method for the detection of <i>E. coli</i> O157:H7 in raw beef trim and raw ground beef
USDA/FSIS Chap.17	Identification of Animal Species in Meat and Poultry Products

### (Chemical Tests - Environmental Contaminants Unit)

EC-001	Determination of Polychlorinated Dibenzo-p- Dioxins, Polychlorinated Dibenzofurans and Polychlorinated Biphenyls in Milk, Fish products and seafood, Feed Additives and Fertilizers by Isotope Dilution on GC/HRMS
EC-005	Determination of Polycyclic Aromatic Hydrocarbons in Fish and Smoked Fish by GC/HRMS



EC-006 Determination of Furan, 2-Methylfuran and 3-Methylfuran in Processed Foods, Alcohol and Coffee by Headspace GC/MS

**(Chemical Tests - Pesticide Residues Unit)**

F F-001 Multiresidue Method for the Determination of Pesticides in Animal Feeds using (GPC/SPE Clean-up, GC/MSD and Detection)

F F-007 Determination of Pesticide Residues in Fertilizers using (GC/MSD) and (LC/MS/MS) Detection

PMR-001 Determination of Pesticides in Fruits and Vegetables (with Solid Phase Extraction using GC/MSD Detection)

PMR-005 Determination of Pesticides in Difficult Matrix Fruits and Vegetables Matrices (with Solid Phase Extraction Clean-up using GC/MSD Detection)

PMR-007 Multi-residue Method for the Determination of Organochlorine Pesticides in Fish and Seafood (GPC/SPE Clean-up, GC/MSD Detection)

PMR-008 Multi-residue Method for the Determination of Organochlorine Pesticides in Fish Oil (GPC/SPE Clean-up, GC/MSD Detection)

PMR-013 Determination of Pesticides in Grains using LC-MS/MS)

PMR-014 Determination of Pesticides in Pulses using LC-MS/MS)

PMR-016 Determination of Pesticides in Fruits and Vegetables Using Liquid Chromatography Electrospray Ionization Mass Spectrometry (UHPLC/ESI-MS/MS)

PMR-017 Determination of Glyphosate/Glufosinate and their metabolites in Animal Feed by LC-MS/MS.

PMR-018 Determination of Pesticides in Nuts, Seeds, Fish and Shellfish using LC-MS/MS

PMR-019 Determination of Pesticides in Nuts and Seeds by QuEChERS Extraction using GC-MS Detection

PMR-020 Determination of Pesticides in Compost using GC-MSD and LC-MS/MS

PMR-021 Determination of Pesticides in Fish and Shellfish by GC-MS/MS

PMR-022 Determination of Pesticides in Animal Feed by LC-MS/MS

SPR-002 Determination of EBDC as EDA Conversion in Fruits and Vegetables (HPLC with Fluorescence Detection Method)

**Notes:**

**EC-; F F-; PMR-; SPR-:** Methods in the Analytical Methods Manuals of the Canadian Food Inspection Agency Calgary Laboratory.

**CFIAFMWG :** Methods from the Food Microbiology Working Group of the CFIA

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

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

**MFHPB; MFLP:** Methods in the Compendium of Methods for the Microbiological Examination of Foods. Health Canada



**Standards Council of Canada**  
**Conseil canadien des normes**

**USDA/FSIS:** Method in the United States Department of Agriculture/ Food Safety Inspection Service Microbiology Laboratory Guidebook

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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Elias Rafoul  
Vice President, Accreditation Services  
Publication on: 2019-10-28

Number of Scope Listings: 54  
SCC 1003-15/322