

## TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

### Scope of Accreditation

**Legal Name of Accredited Laboratory:** Health Canada, RORB, Microbiology Laboratory

Location Name or Operating as (if applicable): MICROBIOLOGY LABORATORY

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<b>SCC File Number:</b>	15743
<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) Environmental Testing (ET) Test Method Development and Evaluation and Non-Routine Testing (TMDNRT)
<b>Initial Accreditation:</b>	2006-04-25
<b>Most Recent Accreditation:</b>	2024-02-05
<b>Accreditation Valid to:</b>	2026-04-25

*Remarque : La présente portée d'accréditation existe également en français. La version anglaise est publiée séparément.*  
*Note: This scope of accreditation is also available in French as a document issued separately.*

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

### **Description of Activities – Chemical Tests:**

1. Development and validation of methods for the analysis of chemical contaminants and multielements.
2. Modification, adaptation, improvement and validation of existing methods for the analysis of chemical contaminants and multielements.
3. Development of methods using techniques such as chromatography, spectrometry and spectrophotometry for the analysis of chemical contaminants and multielements.
4. Performance of non-routine tests to meet client needs in the techniques listed below.

### **Description of Activities – Molecular Biology Tests:**

1. Development, evaluation and validation of molecular detection or characterization methods for the detection and characterization of microorganisms (bacteria, moulds, yeast and viruses).
2. Development, evaluation and validation of new molecular methods/testing kits, including commercial testing kits for the detection and/or identification of pathogenic microorganisms.
3. Modification, improvement and validation of published or existing molecular methods for the detection and/or identification of microorganisms.
4. Performance of non-routine molecular tests to meet client needs in the techniques listed below.

### **Description of Activities – Microbiological Tests:**

1. Development, evaluation and validation of testing methods for the detection, isolation, identification and characterization of microorganisms.
2. Development, evaluation and validation of new analysis/rapid testing kits, including commercial testing kits for the detection and/or enumeration of microorganisms.
3. Modification, improvement and validation of published or existing methods for the detection and/or enumeration of microorganisms.
4. Performance of non-routine tests to meet client needs in the techniques listed below.

### **Description of Techniques – Chemical Tests:**

1. Liquid chromatography (HPLC, UHPLC)
2. Gaz chromatography (GC)
3. Inductively coupled plasma mass spectrometry (ICP-MS)
4. Inductively coupled plasma triple quadrupole mass spectrometry (ICP-MSMS)
5. Gaz chromatography/triple quadrupole mass spectrometry (GC/MS/MS)

### **Description of Techniques – Microbiological and Molecular Biology Tests:**

1. Detection and/or enumeration of microorganisms by conventional and/or genetic microbiology techniques.
2. Identification/characterization of microorganisms by biochemical and/or immunological tests and/or protein profiling and/or genetic tests (PCR, qPCR, qRT-PCR, molecular hybridization, Vitek, Vidas, BAX, MALDI-TOF, genomic sequencing, etc.).

## ANIMAL AND PLANTS (AGRICULTURE)

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

(Microbiological)

MFHPB-30	Isolation of <i>Listeria monocytogenes</i> and other <i>Listeria spp.</i> from foods and environmental samples
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## ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY

### Water Quality:

Process Waters

Surface Waters

Drinking Waters

(Chemical)

QLA-MA-0022	Determination of metals in drinking water by ICP-MS or ICP-MSMS Al, Sb, As, Ba, B, Cd, Cr, Co, Cu, Fe, Mn, Ni, Pb, Se, U, Zn, Ca, Mg, Na, Hg
QLA-MA-0038	Determination of haloacetic acids in drinking water by GC-MSD Chloroacetic acid (MCAA), bromoacetic acid (MBAA), dichloroacetic acid (DCAA), trichloroacetic acid (TCAA), dibromoacetic acid (DBAA)
QLA-MA-0044	Determination of pH and alkalinity in drinking water by pH-electrode and automatic titrator
QLA-MA-0045	Determination of colour in drinking water by UV/VIS spectrophotometer
QLA-MA-0048	Determination of conductivity and total dissolved solids in drinking water by automatic titrator with conducting electrode
QLA-MA-0049	Determination of water turbidity by nephelometer
QLA-MA-0053	Analysis of pesticides in drinking water by LC-MSMS MCPA, hexazinone, atrazine-desethyl, 2,4-D, Picloram, atrazine, metribuzin, metolachlor, Simazine
QLA-MA-0054	Measurement of anions in drinking water by ion chromatography Chlorite, chlorate, chloride, fluoride, nitrite, nitrate et sulphate
QLA-MA-0069	Analysis of lead and copper in drinking water by ICP-MS or ICP-MSMS
QLA-MA-0071	Analysis of N-Nitrosodimethylamine (NDMA) in drinking water by GC-MS

**Other (specify):**

**Hair**

**(Chemical)**

<p>QLA-MA-0050</p>	<p>Analysis of total and inorganic mercury in hair by cold vapor atomic fluorescence spectrophotometer (CVAFS)</p>
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Number of Scope Listings: 12  
 Number of TMDNRT: 7

**Notes:**

**MFHPB:** Microbiological Analysis of Foods Health Protection Branch, Health Canada Compendium of Analytical Methods  
**QLA-MA:** Internal Laboratory Method

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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