

TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

Legal Name of Accredited Laboratory: Health Canada, Health Products, Food, Pesticide, and Microbiology Laboratories

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

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SCC File Number:	15743
Accreditation Standard(s):	ISO/IEC 17025:2017 – General Requirements for the competence of testing and calibration laboratories
Fields of Testing:	Biological Chemical/Physical
Program Specialty Area:	Agriculture Inputs, Food, Animal Health and Plant Protection (AFAP) Environmental Testing (ET) Test Method Development and Evaluation and Non-routine Testing (TMDNRT)
Initial Accreditation:	2006-04-25
Most Recent Accreditation:	2023-02-21
Accreditation Valid to:	2026-04-25

Note: The laboratory accredited under this PSA have demonstrated that it meets ISO/IEC 17025 requirements for test method development and evaluation and non-routine testing under the following product classification.

CHEMICALS AND CHEMICAL PRODUCTS

ANIMAL AND PLANTS (AGRICULTURE)

ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY

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 Techniques and Methods (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)

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 and Methods (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):

MFHPB-30	Isolation of <i>Listeria monocytogenes</i> and other <i>Listeria spp.</i> from foods and environmental samples
MFLP-01	Isolation of <i>Listeria monocytogenes</i> from food samples

ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY

Water Quality:

Process Waters

Surface Waters

Drinking Waters

QLA-MA-0022	Determination of metals in water (modified SM 3125 B) by: ICP-MS, ICP- ICP-MSMS
QLA-MA-0038	Determination of haloacetic acids in drinking water by GC-MSD (modified EPA 552.3)
QLA-MA-0044	Determination of pH and alkalinity in water (modified SM 2320 B and 4500-H ⁺ B) By: Automatic titrator or pH meter
QLA-MA-0045	Determination of colour in drinking water (modified CEAEQ MA.103-Col. 2.0) By: UV/VIS Spectrophotometer
QLA-MA-0048	Determination of conductivity and total dissolved solids in water (modified SM 2510 B) By: Automatic titrator with conducting electrode
QLA-MA-0049	Determination of water turbidity (modified SM 2130 B) By: Nephelometer
QLA-MA-0051	Analysis of N-Nitrosodimethylamine (NDMA) in drinking water by GC-MS
QLA-MA-0053	Direct analysis of pesticides in drinking water by LC-MS/MS
QLA-MA-0054	Measurement of anions in water by ion chromatography (modified CEAEQ MA. 300-Ions 1.3)
QLA-MA-0069	Analysis of lead and copper in drinking water by: ICP-MS, ICP-MSMS

Other (specify):

Hair

<p>QLA-MA-0050</p>	<p>Analysis of total and inorganic mercury in hair By: Cold vapor atomic fluorescence spectrophotometer (CVAFS) mercury analyzer</p>
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Number of Scope Listings: 13 and 5 TMDNRT

Notes:

MFHPB: Method Food Health Protection Branch, Methods for the Microbiological Analysis of Foods, Compendium of Analytical Methods, Health Protection Branch, Health Canada

MFLP: Microbiology Food Laboratory Procedure, Laboratory Procedures for the Microbiological Analysis of Foods, Compendium of Analytical Methods, Health Protection Branch, Health Canada

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.

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