



## TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

### Scope of Accreditation

Accredited Laboratory No. 316

**Legal Name of Accredited Laboratory:** Canadian Food Inspection Agency  
**Location Name or Operating as:** OTTAWA LABORATORY - FALLOWFIELD  
**Contact Name:** Ray Theoret  
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<b>SCC File Number:</b>	15367
<b>Accreditation Standard(s):</b>	ISO/IEC 17025:2005
<b>Fields of Testing:</b>	Biological
<b>Program Specialty Area:</b>	Agriculture Inputs, Food, Animal Health and Plant Protection (AFAP) Test Method Development and Evaluation and Non-routine Testing (TMDNRT)
<b>Initial Accreditation:</b>	1999-12-17
<b>Most Recent Accreditation:</b>	2018-11-06
<b>Accreditation Valid to:</b>	2020-11-20

#### 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 above.

#### Ottawa Plant Laboratory

To develop and/or validate new methods for the detection and/or identification of plant quarantine pests, invasive alien species, plant species and/or cultivars (including genetically modified) using DNA-based, biochemical, serological, and other techniques and through the collection of reference sequence and fingerprints.

Specific techniques used:



1. Isolation and culture of fungi, bacteria and nematodes
2. Microscopic examination, morphological and morphometric identification
3. Moist chambers/blotter boxes for plant material and seeds, filtration of water, soil baiting, selective size sieving
4. GC-FAME and BIOLOG carbohydrate utilization assays for bacterial identification
5. ELISA for seedborne virus identification
6. DNA based methodologies including DNA extraction, Agarose Gel Electrophoresis, PCR (end-point PCR, qPCR, conventional PCR) SNP genotyping, Capillary DNA genetic analyser for Sanger sequencing and microsatellite analysis, next generation sequencing and isothermal amplification

### **Ottawa Animal Health Laboratory (OAHL)**

To develop, optimize, validate and transfer new methods for improving the diagnosis and control of diseases in animals in support of Program activities related to disease detection and surveillance.

#### **Specific techniques used:**

1. Conventional culture methods of bacterial agents,
2. Virus cell culture, titration, isolation, growth, purification of whole virus and components and virus neutralization assays
3. Antibody purification (affinity columns), antibody labelling (FITC and enzymes),
4. Enzyme linked immunosorbent assays (ELISAs) - indirect and competitive and ligand based EIAs, fluorescence polarization assay (FPA)
5. Histopathology, immunofluorescence staining of infected cells and tissues (direct and indirect)
6. Protein based techniques including protein concentration estimation assays, polyacrylamide gel electrophoresis (SDS-PAGE), Western blot, Immunoblot, protein misfolding cyclic amplification (PMCA), real-time quaking induced conversion assay (RT-QuIC)
7. RNA/DNA based methods including extraction, nucleic acid measurement (spectrophotometric or fluorescent methods), RT-PCR (reverse transcription PCR), qPCR (real-time PCR), RT-qPCR, multi-locus variable-number tandem repeat analysis, DNA sequencing including Sanger and Illumina technologies
8. Mouse bioassay

### **Food Safety Research**

To develop and evaluate new testing methodologies for the isolation, characterization and detection of microbial pathogens in foods.

1. Bacterial culture, isolation and identification tools including conventional culture methods, immunomagnetic separation and biochemical procedures
2. Molecular cloning of bacterial genes
3. Expression and purification of recombinant proteins
4. Identification of bacterial proteins using mass spectrometry
5. Techniques for extraction, purification and quantitation of DNA/RNA and proteins including gel and capillary electrophoresis and sequencing
6. Immunological tools (agglutination, ELISA and Western blotting)
7. DNA/RNA based techniques including: PCR (conventional, multiplex and real-time) SNP analysis, loop-mediated isothermal nucleic acids amplification, whole genome sequencing and bioinformatics tools

### **ANIMAL AND PLANTS (AGRICULTURE)**



**Food - Microbiology**

SOP# FST-PR001	Pulsed Field Gel Electrophoresis of <i>Escherichia coli</i> , <i>Salmonella spp.</i> and <i>Shigella spp.</i>
SOP# FST-PR002	Pulsed Field Gel Electrophoresis of <i>Listeria monocytogenes</i>
SOP# FST-PR010	Pulsed Field Gel Electrophoresis of <i>Vibrio spp.</i>

**Other**

**Ottawa Plant Laboratory - Entomological Examinations\***

SOP# OPL-PR012	Identification of Insects, Mites and Terrestrial Molluscs
SOP# OPL-PR062	Gypsy Moth Genotyping using Polymerase Chain Reaction (PCR) and Microsatellite Analysis

**Ottawa Plant Laboratory - Genotyping/Botanical Examinations\***

SOP# OPL-PR084	Diagnostic Testing for LMOs
SOP# OPL-PR085	Genotyping of Plant Varieties using Amplified Fragment Length Polymorphism (AFLP)
SOP# OPL-PR109	Botanical Identification of Plant Species
SOP# OPL-PR126	Genotyping of Plant Varieties using SSRs

**Ottawa Plant Laboratory - Nematological Examinations\***

LDP# PQ-LD003	The Extraction, Recovery, Mounting and Identification of Plant Parasitic Nematodes from Soil, Plant Medium and Plant Material.
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**Ottawa Plant Laboratory-Phytopathological – Examinations\***

SOP# OPL-PR028	Seed Wash Extraction for all Ustilaginales and other Fungal Spores Transported by Grain and Straw
SOP# OPL-PR037	Detection of <i>Curtobacterium flaccumfaciens pv.flaccumfaciens</i> in seed
SOP# OPL-PR038	Detection of <i>Xanthomonas translucens</i> pathovarsin seed
SOP# OPL-PR041	Detection of <i>Pseudomonas syringae, pv. atrofaciens, striafaciens</i> and <i>coronafaciens</i> in seed
SOP# OPL-PR098	Detection of <i>Phytophthora ramorum</i> by TaqMan Real Time PCR using a Liquid Handling Robotic System
SOP# OPL-PR100	General Diagnostic Procedures for Plant, Seed, Soil and Water Samples Submitted for the Routine Diagnosis of Plant Diseases and for the Identification of Plant Pathogens

**Veterinary-OAHL-Anatomic Pathology – Histopathology, Mycobacterial Diseases**

SOP# MY-PR036	Histopathological Interpretation of Tissues Submitted from Animals Suspected of Tuberculosis
SOP# MY-PR099	Detection of Mycobacterium tuberculosis Complex Organisms in Formalin-fixed, Paraffin-embedded Tissues by PCR Amplification of an IS6110 Insertion Sequence



**Veterinary-OAHL-Anatomic Pathology - Rabies**

LDP# RA-LD001	Fluorescent Antibody Test (FAT) for the Detection of Rabies Virus Antigen
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**Veterinary-OAHL-Anatomic Pathology-Transmissible Spongiform Encephalopathy**

SOP# TS-PR023	Detection of Central Nervous System Tissue in Beef by Histological Examination of Hematoxylin and Eosin Staining and GFAP Immunohistochemistry
SOP# TS-PR026	Detection of Prion Protein Associated with BSE, Scrapie and CWD using the Bio-Rad TeSeE™ Purification Kit and TeSeE™ SAP Detection Kit
SOP# TS-PR040	Genotyping Sheep for Scrapie Susceptibility/Resistance by Real-Time PCR
SOP# TS-PR044	Confirmation of Prion Protein Specific for Scrapie and CWD Using BioRad's TeSeE™ Western Blot Kit
SOP# TS-PR046	Immunohistochemical Detection of Prion Protein in Animal Transmissible Spongiform Encephalopathies: Scrapie in Sheep and Goats
SOP# TS-PR048	Immunohistochemical Detection of Prion Protein in Animal Transmissible Spongiform Encephalopathies: Chronic Wasting Disease (CWD) in Deer and Elk
SOP# TS-PR056	Allelic Determination for Elk Codon 132 and White-Tailed Deer Codon 96 by Real-Time PCR

**Veterinary-OAHL-Microbiology-Animal Health Microbiology**

LDP# AHML-LD001	Bovine Genital Campylobacteriosis - Procedure for the Isolation and Identification of <i>Campylobacter fetus</i>
LDP# AHML-LD004	Contagious Equine Metritis: Procedure for the Isolation and Identification of <i>Taylorella equigenitalis</i>
LDP# AHML-LD005	Salmonellosis: Procedure for the Isolation and Identification of <i>Salmonella</i> Serovars
SOP# AHML-PR007	Detection of <i>Campylobacter fetus</i> ssp. in Clark's TEM samples, and identification of suspect <i>C.fetus</i> ssp. pure culture isolates, using an antigen capture Monoclonal antibody based ELISA procedure
SOP# AHML-PR013	Detection of <i>Taylorella equigenitalis</i> from submitted sample swabs from horses and proficiency panel samples, and to help confirm the accurate identification of pure culture suspect isolates as <i>T.equigenitalis</i> , including <i>discrimination from Taylorella asinigenitalis</i> using a Quantitative Real-Time PCR (qPCR)



**Veterinary-OAHL-Microbiology-Mycobacterial Diseases**

SOP# MY-PR022	Differentiation of mycobacterial isolates on the basis of growth characteristics and preparation of inoculum for identification
SOP# MY-PR032	The Processing of Specimens for Mycobacterial Isolation

**Veterinary-OAHL-Serological Diagnosis, Brucellosis**

LDP# BR-LD009	Protocol for the Agar Gel Immunodiffusion Test for the detection of antibodies to Paratuberculosis in animal serum
LDP# BR-LD011	Protocol for the <i>Brucella</i> Buffered Plate Agglutination Test (BPAT) for the detection of antibodies to <i>Brucella abortus</i> , <i>melitensis</i> and <i>suis</i>
LDP# BR-LD022	Protocol for the <i>Brucella</i> EDTA modified Tube Agglutination Test (TAT) for the detection of antibodies to <i>Brucella abortus</i> , <i>B. melitensis</i> and <i>B. suis</i>
LDP# BR-LD026	Protocol for the Tube Agglutination Test for the Detection of Antibodies to Equine Paratyphoid
SOP# BR-PR005	Micro Complement Fixation Test
SOP# BR-PR007	Macro Complement Fixation Test
SOP# BR-PR038	Use of the <i>Mycobacterium paratuberculosis</i> Antibody Test kit (ELISA) for the Diagnosis of <i>Mycobacterium paratuberculosis</i> infections in cattle
SOP# BR-PR040	Fluorescence Polarization Assay (FPA) (single tube) for detection of serum antibody to <i>Brucella spp.</i> : Presumptive serological diagnosis in bison, cervids, sheep and goats
SOP# BR-PR041	Competitive Enzyme Linked Immunosorbent assay (C ELISA) for Detection of Serum Antibodies to <i>Brucella spp.</i> : Presumptive serological diagnosis in cattle, bison and cervids
SOP# BR-PR042	Indirect Enzyme Immunosorbent Assay (I-ELISA) for Detection of Serum Antibodies to <i>Brucella spp.</i> : Presumptive serological diagnosis in goats, pigs and sheep
SOP# BR-PR048	High Throughput 96 Well Fluorescence Polarization Assay (FPA) for detection of porcine antibody to <i>Brucella spp.</i>
SOP# BR-PR047	High Throughput 96 Well Fluorescence Polarization Assay (FPA) for detection of bovine antibody to <i>Brucella spp.</i>
SOP#SDU-PR004	Use of the Mycobacterium Bovis Antibody Test kit (ELISA) for the diagnosis of Mycobacterium bovis infections in cattle
SOP#SDU-PR008	Use of the BOVIGAM® <i>Mycobacterium bovis</i> Gamma Interferon Test Kit (Phase 2) for the in vitro diagnosis of bovine tuberculosis in cattle

Number of Scope Listings: 47

**Notes:**

**CLIENTS SERVED:** Normally Reserved for Internal Clients



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

- LDP, SOP:** Subject Laboratory's Internal Procedures
- ISO/IEC 17025:** General Requirements for the Competence of Testing and Calibration Laboratories
- RG-PT-Annex A:** SCC Requirements and Guidance –Proficiency Testing for Testing and Medical Laboratories, Annex A: Agriculture Inputs, Food, Animal Health and Plant Protection (AFAP) Testing Laboratories
- RG-TMDNRT:** SCC Requirements and Guidance for Accreditation of Laboratories Engaged in Test Method Development and Non-Routine Testing

Ottawa Plant Laboratory - Entomological Examinations)\*  
Testing conducted at:  
Canadian Food Inspection Agency (CFIA)  
Ottawa Plant Laboratory (Central Experimental Farm) - Entomology  
960 CARLING AVENUE, BUILDING 18 and K. W. Neatby Building  
Ottawa, Ontario K1A 0C6  
Canada

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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