

TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

Accredited Laboratory No. 314

Legal Name of Accredited Laboratory: **Canadian Food Inspection Agency**

Location Name or Operating as (if applicable): CFIA – CHARLOTTETOWN LABORATORY

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SCC File Number:	15381
Accreditation Standard(s):	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
Fields of Testing:	Biological
Program Specialty Area:	Agriculture Inputs, Food, Animal Health and Plant Protection (AFAP) Test Method Development and Evaluation and Non-routine Testing (TMDNRT)
Initial Accreditation:	2000-01-31
Most Recent Accreditation:	2021-04-25
Accreditation Valid to:	2024-01-31

Remarque: La présente portée d'accréditation existe également en français, sous la forme d'un document distinct.

Note: This scope of accreditation is also available in French as a separately issued document.

TEST METHOD DEVELOPMENT AND EVALUATION AND NON-ROUTINE TESTING

Description of activities under TMDNRT:

The Charlottetown Laboratory is primarily involved in plant health issues and currently the focus is on commodities such as potatoes, lentils and other crops of economic importance. The main emphasis of the Technology Development section is:

1. To conduct research on the biology of plant diseases relevant to regulatory requirements and the preservation of Canada’s plant resources,
2. To develop and/or validate, state-of-the-art biological, serological, biochemical, and molecular methods for the detection and identification of plant pathogens
3. To modify, improve and validate published or existing methods for the identification of plant pathogenic organisms
4. To conduct non-routine testing to meet client demands.

Procedures used in support of Test Method Development and Evaluation and Non-Routine Testing:

SOP-CL-TDV-GEN-004 "Project Management in the Technology Development Section."

SOP-CL-MSP-046 "Validation and Implementation of Diagnostic Test Methods at the Charlottetown Laboratory."

SOP-CL-MSP-050 "Defining and Reactivating Routine Analysis Conducted Infrequently Testing"

Description of Techniques under TMDNRT:

The Charlottetown Laboratory develops test methods and performs non-routine testing using molecular detection techniques such as RT-PCR, PCR, and next generation sequencing.

ANIMAL AND PLANTS (AGRICULTURE)

Foods and Edible Products (Human and Animal Consumption):

Edible Vegetables and Certain Roots and Tubers

(Enzyme Linked immunosorbent assay – ELISA)

CL-DIA-DIA-053	Standard Operating Procedure for the Detection of <i>Spongospora subterranean</i> in Potato Tubers
CL-DIA-DIA-075	Procedure for the Detection of <i>Pantoea stewartii</i> in Corn Leaves and Seed
CL-PRO-001	Protocol for the Detection of <i>Clavibacter sepedonicus</i> , the Bacterial Ring Rot Pathogen in Potato.
CL-PRO-002	Protocol for the Detection of Potato Viruses by an Enzyme Immunosorbant Assay, (Double Antibody Sandwich and Triple Antibody Sandwich)

(Immunofluorescence - IMF)

CL-PRO-001	Protocol for the Detection of <i>Clavibacter sepedonicus</i> , the Bacterial Ring Rot Pathogen in Potato
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(Molecular Biological Techniques)

CL-DIA-DIA-051	Standard Operating Procedure for total RNA Extraction, RT-PCR and Restriction Analysis for the Detection and Identification of <i>AMV</i> , <i>PSTVd</i> , <i>PMTV</i> , and <i>TRV</i> in Potatoes.
CL-DIA-DIA-074	Procedure for the Total Extraction of DNA from Potato Stem and Tuber Tissues, Geranium Stems and Tomato Stems for the Detection of <i>Ralstonia solanacearum</i> Race 3 Biovar 2 using Real Time TaqMan PCR
CL-DIA-NEM-006	Identification of <i>Globodera</i> species using Polymerase Chain Reaction (PCR) based techniques.
CL-DIA-NEM-009	Morphological and Molecular Identification of <i>Ditylenchus spp.</i>
CL-DIA-DIA-067	Real time PCR detection of BRR from potato stem and tuber tissues
CL-DIA-DIA-077	Real-time TaqMan PCR Detection of <i>Synchytrium endobioticum</i>
CL-PRO-004	Protocol for the Detection of <i>PVY</i> , <i>PLRV</i> , <i>PVS</i> , <i>PVX</i> and <i>PVA</i> in Dormant Potato Tubers by Reverse Transcriptase Polymerase Chain Reaction

(Mycological examinations)

CL-DIA-DIA-044	Potato Wart Disease Diagnostic Procedure
CL-DIA-DIA-080	Bioassay for <i>Synchytrium endobioticum</i>

(Nematode detection)

CL-DIA-NEM-001	Isolation and Identification of <i>Ditylenchus dipsaci</i> from Pulse Seeds
CL-DIA-NEM-004	Cyst Nematode Extraction and Diagnosis
CL-DIA-NEM-005	The Mounting and Identification of Cyst Nematodes

(Reverse Polyacrylamide Gel Electrophoresis – R-Page)

CL-PRO-003	Protocol for the Detection of Potato Spindle Tuber Viroid in Leaf and Tuber Tissue. Reverse Polyacrylamide Gel Electrophoresis
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Number of Scope Listings: 18

Notes:

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

BRR-Protocol (CL-PRO-001), **DAS-TAS Protocol** (CL-PRO-002), **RT-PCR** for viruses (CL-PRO-004) and the **PSTV Protocol** (CL-PRO-003) are official protocols issued by the Canadian Food Inspection Agency for the detection of the respective organisms as identified in the scope of testing.

CL-DIA: Subject laboratory in-house test methods

CL-PRO: Subject laboratory official CFIA protocols



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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