



Standards Council of Canada  
Conseil canadien des normes

## SCOPE OF ACCREDITATION

Canadian Food Inspection Agency  
SASKATOON LABORATORY  
116 Veterinary Road  
Saskatoon, SK  
S7N 2R3

Accredited Laboratory No. 263  
(Conforms with requirements of ISO/IEC 17025:2017, RG-TMDNRT)

CONTACT: Dr. Maria Matus-Cadiz  
TEL: +1 306 385 7802  
FAX: +1 306 385 7866  
EMAIL: maria.matus-cadiz@canada.ca

CLIENTS SERVED: Internal Clients - Canadian Food Inspection Agency

FIELDS OF TESTING: Biological, Chemical/Physical

PROGRAM SPECIALTY AREA: Agriculture Inputs, Food, Animal Health and Plant Protection (PSA-AFAP), Test Method Development and Evaluation and Non-Routine Testing

INITIAL ACCREDITATION DATE : 1997-11-05

SCOPE ISSUED ON: 2019-07-25

ACCREDITATION VALID TO: 2021-11-05

**Note: ANIMAL AND PLANTS (AGRICULTURE)**

**Seeds testing conducted at:**

CFIA Saskatoon Laboratory  
Seed Science & Technology Section  
301-421 Downey Road, Saskatoon SK S7N 4L8 Canada

**ANIMAL AND PLANTS (AGRICULTURE)**

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

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

**Activities under TMD/NRT**



**(Chemistry) - Activities under TMD/NRT**

- Modification of published / existing methods or development and validation of new methods for screening and determination of chemical residues and contaminants.
- Development and validation of mass spectral techniques for the confirmation of the identity of chemical residues and contaminants.
- Development of methods for the assessment and validation of commercially available test kits for the screening and determination of chemical residues and contaminants
- Screening, determination and confirmation of the identity of chemical residues and contaminants for NRT.

**(Chemistry) - Techniques under TMD/NRT**

- Gas Chromatography with Mass Spectrometer (MS) detection.
- (Ultra) High Performance Liquid Chromatography with PhotoDiode Array, UV/Vis, Fluorescence, and Mass Spectrometer (MS, MS/MS) detection.
- Use of commercially available test kits for screening and determination of chemical residues and contaminants.
- Sample preparation, extraction, separation and general chemical and physical tests specific to residue and contaminant testing.

**(Parasitology) - Activities under TMD/NRT**

- To develop and validate new methods or modify published/existing methods for the screening and determination of parasites in animals, foods, water and environmental samples.
- NRT to meet customer demands.

**(Parasitology) - Techniques under TMD/NRT**

- Microscopic examination, morphological / morphometric identification and enumeration
- Isolation and culture/propagation
- Artificial digestion
- Serological immunoassay (MAT, IFA, ELISA/cELISA, WB)
- Magnetic capture
- Somatic and excretory/secretory antigen production
- Recombinant antigen production in expression systems
- Monoclonal/polyclonal antibody production
- Molecular detection and identification (conventional and qPCR, LAMP)
- DNA extraction
- DNA sequencing

**(Seeds) - Activities under TMD/NRT**

- To develop and validate new methods or modify published/existing methods for the germination of seeds for regulatory purposes using standard germination testing.
- To develop and validate new methods or modify published/existing methods for the detection, identification and quantification of seed and associated inert matter for plant



species of regulatory concern using seed morphology and the collection of herbaria reference specimens.

- To develop and validate new methods or modify published/existing methods for the determination of seed viability for plant species of regulatory concern using plant physiology techniques.
- NRT to meet customer demands.

**(Seeds) - Techniques under TMD/NRT**

- Standard Germination Testing
- Purity and Identification of Other Seeds Testing
- Microscopic examination, morphological identification and digital/computational imaging to aid seed identification
- Tetrazolium (TZ) Testing
- Herbicide Bioassay Testing

CVDR-M-3002	Determination of Phenylbutazone, Oxyphenbutazone and Diclofenac Residues in Tissues by Liquid Chromatography/Tandem Mass Spectrometry
CVDR-M-3003	Determination of Thyreostats in Tissue by Liquid Chromatography/Tandem Mass Spectrometry
CVDR-M-3005	Determination of Endectocides in Animal Tissues, Milk and Eggs by LC with Fluorescence Detection
CVDR-M-3007	Determination of Fluoroquinolones in Bovine, Porcine, & Avian Tissues by Liquid Chromatography with Fluorescence Detection
CVDR-M-3011	Determination of Tetracycline, Oxytetracycline, Doxycycline, Chlortetracycline in Eggs, Milk and Animal Tissues using HPLC
CVDR-M-3012	Determination of Ceftiofur-related Residues in Milk, Egg and Animal Tissues Using Liquid Chromatography with MS/MS Detection
CVDR-M-3014	Determinative Method for Protein-Bound Metabolites of Nitrofurans in Muscle, Liver, Canned Processed Pork, Cooked Duck and Milk by LC-MS/MS
CVDR-M-3015	Determination of Desoxycarbadox in Animal Tissue by LC-MS/MS
CVDR-M-3016	Determination of Melengestrol Acetate, Megestrol Acetate and Chlormadinone Acetate by LC-MS/MS
CVDR-M-3029	A Determinative Method for Residues of Macrolide Antibiotics in Animal Tissues, Milk and Eggs by Liquid Chromatography-Tandem Mass Spectrometry
CVDR-M-3031	Determination of Multi-Class Veterinary Drug Residues in Milk, Eggs, Liver, Kidney and Muscle by LC-MS/MS
CVDR-M-3033	Determination of Beta Agonists in Animal Tissue without Digestion by LC-MS/MS
CVDR-M-3034	Determination of NSAIDS, Steroids, Hormones and Tranquilizers in Animal Tissues by LC-MS/MS
CVDR-M-3035	Determination of Trenbolone, Stilbenes and Resorcylic Acid Lactones in Liver Tissues



CVDR-M-3036	A Determinative Method for Five Coccidiostat Residues in Eggs by Liquid Chromatography-Tandem Mass Spectrometry
CVDR-M-3037	Determination of Streptomycin in Milk by ELISA Test Kit
CVDR-M-3038	Determination of NSAIDS in Milk by LC-MS/MS
CVDR-M-3039	Determination of Fumagillin and Multi-Class Veterinary Drug Residues in Honey by LC-MS/MS
CVDR-M-4016	A Determinative and Confirmatory Method for Total Florfenicol Residues Expressed as Florfenicol Amine Equivalents in Bovine, Equine and Porcine Kidney, Liver and Muscle Tissues by Acid Hydrolysis and LC-MS/MS
CVDR-M-4017	A Determinative and Confirmatory Method for Total Tulathromycin Residues Expressed as Tulathromycin Equivalents in Bovine and Porcine Kidney, Liver, and Muscle Tissues by Acid-Hydrolysis and LC-MS/MS

**(Parasitology)**

CFAP-M-0016	Isolation and Detection of Protozoan Oocysts from Select Produce by qPCR-MCA
CFAP-M-0040	Isolation and Detection by nested PCR of <i>Giardia</i> Cysts from Select Produce
CFAP-M-0008	C-ELISA for the Detection of Antibodies to <i>Babesia caballi</i> and <i>Theileria equi</i> (syn. <i>Babesia equi</i> ) in Horse Serum
CFAP-M-0010	Detection of <i>Tritrichomonas foetus</i> by Microscopic Examination and Culture
CFAP-M-0036	Indirect Fluorescent Antibody Test for the Detection of <i>Theileria equi</i> and <i>Babesia caballi</i> Antibodies in Horse Sera
CFAP-M-0013	The Double Separatory Funnel Digestion Procedure for the Detection of <i>Trichinella</i> Larvae in Pork
CFAP-M-0039	The Double Separatory Funnel Digestion Procedure for the Detection of <i>Trichinella</i> Larvae in Horse Meat

**(Seeds)**

ISTA Rules (Chapter 5)	Germination: Determine the germination potential. Germination on 400 seeds (On grasses, cereals, small legumes, pulses, other agricultural crops, vegetables and flower species).
ISTA Rules (Chapters 5, 11)	Germination on Coated Seeds (On species listed above under ISTA Rules 'Germination').
ISTA Rules (Chapters 5, 18)	Germination of Seeds Mixture (On species listed above under ISTA Rules 'Germination').
ISTA Rules (Chapters 3, 4)	Purity and Identification of Other Seeds: Determine the percentage composition and identity of species - Separation and weighing of fractions, determination of other seeds (On grasses, <i>Poa pratensis</i> , <i>Poa trivialis</i> , <i>Dactylis glomerata</i> , cereals, small legumes, pulses, other agricultural crops, vegetables and flower species).



ISTA Rules (Chapters 3, 4, 18)	Purity and Identification of Seeds Mixture (On species listed above under ISTA Rules 'Purity').
ISTA Rules (Chapters 3, 11)	Purity and Identification of Other Seeds on Coated Seeds (On species listed above under ISTA Rules 'Purity').
ISTA Rules (Chapter 6)	Viability: Estimate viability in general and of dormant seeds – Biochemical viability test (On grasses, cereals, small legumes, other agricultural crops and vegetables).
ISTA Rules (Chapter 11)	Viability on Coated Seeds (On species listed above under ISTA Rules 'Viability').
ISTA Rules (Chapter 18)	Viability of Seeds Mixture (On species listed above under ISTA Rules 'Viability').
CM&P (Chapter 4)	Germination: Determination of maximum germination potential (On species listed in section 4.6.2, Table 5).
CM&P (Chapter 3)	Purity Analysis: Determination of percentage by weight; Determination of numbers per unit weight; Uniform blowing method; and Purity procedures for coated seed.
CM&P (Chapter 4, section 4.7.6)	Tetrazolium Testing: Determination of viability.
SSTS-M-1083	Glyphosate (Round up®) and Glufosinate Ammonium (Liberty®) Bioassay -- Canola and Rapeseed
SSTS-M-1085	Glyphosate (Round up) Bioassay - Soybean

**Notes:**

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

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

**TMD/NRT:** Test Method Development and Non-Routine Testing

**CFIA:** Canadian Food Inspection Agency

**CFAP:** Centre for Food-Borne & Animal Parasitology

**CVDR:** Centre for Veterinary Drug Residues

**SSTS:** Seed Science & Technology Section

**CM&P:** Canadian Methods and Procedures for Testing Seed

**ISTA:** International Seed Testing Association Rules for Testing Seed

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Elias Rafoul, Vice President  
Accreditation Services

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