



Standards Council of Canada
Conseil canadien des normes

SCOPE OF ACCREDITATION

Government of Prince Edward Island
PEI ANALYTICAL LABORATORIES
23 Innovation Way
Charlottetown, PE
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Accredited Laboratory No. 424
(Conforms with requirements of ISO/IEC 17025:2005)

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CLIENTS SERVED: All interested parties

FIELDS OF TESTING: Biological, Chemical/Physical

PROGRAM SPECIALTY AREA: Agriculture Inputs, Food, Animal Health and Plant Protection (PSA-AFAP) , Environmental

INITIAL ACCREDITATION DATE: 2002-01-15

SCOPE ISSUED ON: 2019-03-13

ACCREDITATION VALID TO: 2022-01-15

ANIMAL AND PLANTS (AGRICULTURE)

Foods and Edible Products: (Human and Animal Consumption)

Dairy Products

(Microbiology)

DML_01M	Petrifilm™ Aerobic Plate Count (PAC) in Raw and Processed Milk (SMEDP 6.040)
DML_02M	Petrifilm™ Coliform, <i>E.coli</i> Plate Count (PCC/HSCC,PEC) in Raw and Processed Milk (SMEDP 7.070, 7.072)
DML_05M	Lab Pasteurization Count in Raw Milk Using Petrifilm™ Aerobic Plate Count Method (PAC) (SMEDP 8.030)
DML_06M	Preliminary Incubation Count in Raw Milk Using Petrifilm™ Aerobic Plate Count Method (PAC) (SMEDP 15 th Ed.6.3)
DML_07M	Enumeration of Bacteria in Raw Milk Using Bactoscan FC (Bactoscan FC Type 73711 Operators Manual, Foss Electric)
DML_08M	<i>Staphylococcus aureus</i> Count in Dairy Products Using Petrifilm (HPB-MFLP-21 July 2004)

(Milk - Raw)

DCL_01M	Fat, Protein, Lactose, Freezing Point, MUN and BHB in Raw Milk using FOSS 6000 Infrared Analysis (FOSS 6000 Manual)
DCL_02M	Somatic Cell Count in Raw Milk Using Fossomatic (Modified SMEDP 11.032)
DCL_03M	Added Water in Raw Milk Using Cryoscope 4C3 (Modified SMEDP 15.032)
DML_04M	Antibiotics in Raw Bovine Milk Using Charm Tests for Beta Lactams, Cloxicillin, Sulfa and Tetracycline Drugs (Modified SMEDP 12.046 and Charm Sciences Inc.)

Feeds

SFL_02M	Crude Protein (Nitrogen) in Animal Feed: Combustion Method (Modified AOAC 990.03)
SFL_03M	Mineral (Dry Ash) in Animal Feeds by ICP-OES (Modified AOAC 968.08) Boron Calcium Copper Iron Magnesium Manganese Phosphorus Potassium Salt (calculated from sodium) Sodium Zinc
SFL_04M	Total Ash in Forages and Mixed Rations (AOAC 942.05)

- SFL_05M Total Moisture in Forages and Mixed Rations Using Loss by Drying and in Whole Grains Using Moisture Meter (Modified AOAC 930.15. Plant, Soil and Water Reference Methods for the Western Region 1994. NFTA Method 2.1.4) Modified NFTA Method 2.1.2. Modified Forage Fiber Analyses. Goering, Van Soest. 1970. Moisture Meter Model 919 Operating Instructions, Labtronics, 1996.)
- SFL_28M Crude Fat in Animal Feeds by ANKOM XT15 (Extraction Method) (Modified ANKOM Technology Method 2, 01-30-09)

ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY

Environmental

Soil

- SFL_22M Water pH and SMP Buffer pH in Soil by pH Meter (Modified Laboratory Manual of Methods, Standards and Equipment, Section 2.0, 3.0.1996)
- SFL_23M Organic Matter in Soil by Combustion (Carbon and Nitrogen in Soil and Sediment, LECO Form No. 203-821-275, 2005)
- SFL_24M Nutrients in Soil by ICP-OES Using Mehlich 3 Extraction (Modified Laboratory Manual of Methods, Standards and Equipment, Section 5.0, 1996, Nutrients in Soil by Inductively Coupled Argon Plasma)
 Aluminum
 Boron
 Calcium
 Copper
 Iron
 Magnesium
 Manganese
 Phosphorus (P2O5)
 Potassium (K2O)
 Sodium
 Sulfur
 Zinc

Water (Inorganic)

- WCL_01M Alkalinity, Chloride and Nitrate-N + Nitrite-N (NO₃-N +NO₂-N) in Water by Flow Injection Analysis Colorimetry (Modified Lachat QuikChem: Alkalinity;10-303-31-1-A, Chloride; 10-117-07-1-A, Nitrate /Nitrite (NO₃-/NO₂-);10-107-04-1-J)
- WCL_02M Ammonia-N in Water by Flow Injection Analysis Colorimetry (Modified Lachat QuikChem 31-107-06-1-B.)

WCL_03M	Nitrate-N/Nitrite-N (Low Level) in Water by Flow Injection Analysis Colorimetry (Modified Lachat QuikChem 31-107-04-1-C)
WCL_04M	pH in Water by pH Meter (Modified EPA 150.0)
WCL_05M	Total Nitrogen in Water by In-Line Digestion Followed by Flow Injection Analysis Colorimetry (Modified Lachat QuikChem 31-107-04-3-B)
WCL_07M	Metals and Trace Elements in Water by ICP-OES (Modified EPA 200.15, SMEWW 2340B) Dissolved Aluminum Dissolved Antimony Dissolved Arsenic Dissolved Barium Dissolved Beryllium Dissolved Boron Dissolved Cadmium Dissolved Calcium Dissolved Chromium Dissolved Cobalt Dissolved Copper Dissolved Iron Dissolved Lead Dissolved Magnesium Dissolved Manganese Dissolved Molybdenum Dissolved Nickel Dissolved Phosphorus Dissolved Potassium Dissolved Selenium Dissolved Silver Dissolved Sodium Dissolved Strontium Dissolved Sulfate (calculated from Sulfur) Dissolved Thallium Dissolved Tin Dissolved Titanium Dissolved Vanadium Dissolved Zinc Hardness (as CaCO ₃)
WCL_08M	Total Phosphorus in Water by Flow Injection Analysis Colorimetry (Modified Lachat QuikChem 10-115-01-41-F)
WCL_09M	Metals and Trace Elements in Water by Inductively Coupled Plasma Mass Spectrometry (Modified EPA 200.8) Dissolved Aluminium Dissolved Antimony Dissolved Arsenic Dissolved Barium Dissolved Beryllium

	Dissolved Boron
	Dissolved Cadmium
	Dissolved Chromium
	Dissolved Cobalt
	Dissolved Copper
	Dissolved Iron
	Dissolved Lead
	Dissolved Manganese
	Dissolved Molybdenum
	Dissolved Nickel
	Dissolved Selenium
	Dissolved Silver
	Dissolved Strontium
	Dissolved Thallium
	Dissolved Tin
	Dissolved Titanium
	Dissolved Uranium
	Dissolved Vanadium
	Dissolved Zinc
WML_04M	Total Suspended Solids in Water by Filtration, Dried at 103-105°C (Modified SMEWW 2540D)
WML_05M	Chlorophyll a in Water by Fluorometry (Modified SMEWW 10200H)
WML_06M	Chemical Oxygen Demand (COD) in Water by HACH DR 2000s Spectrophotometry (Modified HACH Method 8000)
WML_07M	Biochemical Oxygen Demand/Carbonaceous Biochemical Oxygen Demand (BOD/CBOD) - 5 Day in Water by D.O. Meter (Modified SMEWW 5210B)

Water (Microbiology)

WML_01M	Total Coliforms, <i>E.coli</i> in Water by Membrane Filtration Technique Using DC Agar (Modified OME E3407. Membrane Filtration Method Using DC Agar for the Simultaneous Detection and Enumeration of Total Coliforms and <i>Escherichia coli</i> in Drinking Water.)
WML_02M	Heterotrophic Plate Count in Water by Spread Plate Count (Modified SMEWW 9215C)
WML_03M	<i>Pseudomonas aeruginosa</i> in Water by Membrane Filtration Technique (Modified SMEWW 9213E)
WML_09M	Faecal Coliforms in Water by MPN (A-1 Medium) (Modified SMEWW 9221E (2))
WML_11M	Heterotrophic Plate Count in Water by Membrane Filtration Method

Notes:

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

AOAC: Association of Official Analytical Chemists

DML, DCL, SFL, WCL, WML: In-house laboratory methods

EPA: Environmental Protection Agency, USA

OME: Ontario Ministry of Environment

SMEDP: Standard Methods for the Examination of Dairy Products, published by the American Public Health Association

SMEWW: Standard Methods for the Examination of Water and Wastewater, published jointly by the American Public Health Association (APHA), American Water Works Association (AWWA), and the Water Environment Federation (WEF)

Elias Rafoul, Vice President
Accreditation Services

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Partner: SCC