TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

Accredited Laboratory No. 125

Legal Name of Accredited Laboratory:	**Dairy Farmers of Manitoba**
Location Name or Operating as (if applicable):	HORIZON LAB LTD.
Contact Name:	Ken Kwiatkowski
Address:	4055 Portage Avenue, Winnipeg, MB, R3K 2E8
Telephone:	+1 204 488-2035
Fax:	+1 204 488-4772
Website:	www.horizonlab.ca
Email:	kenk@horizonlab.ca

SCC File Number:	15160
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)
Initial Accreditation:	1993-10-05
Most Recent Accreditation:	2021-04-25
Accreditation Valid to:	2025-10-05

Canada

ANIMAL AND PLANTS (AGRICULTURE)

Foods and Edible Products: (Human and Animal Consumption)

Dairy Products

Unprocessed Milk

Chemical Tests

P009, P010, P011, P012	Milk - Enumeration of somatic cells - Part 2: Guidance on the operation of fluro-opto electronic counters. Foss System Fossomatic FC:2006. (ISO 13366 / IDF 148-2:2006)
P009, P010, P011, P012	Whole Milk - Guide for the Operation of Mid-Infrared Instruments Fat, Protein, Lactose, Solids, Milk Urea Nitrogen, Freezing Point, BHB. Foss System Milkoscan FT 6000:2006. (IDF 141C:2000)
P022	Milk - Determination of Freezing Point – Thermistor cryoscope method. ISO 5764 / IDF 108:2009
P037	Processing Milk Samples for the Presence of Drug Residue (Charm Test in Milk) CHARM® MRL Trio; Test for BL, Sulf, Tetra
P038	Processing of Milk Samples for the Presence of Other or Unknown Drug Residue (DELVOTEST® SP-NT Milk Test). (SMEDP 12.025)
P068	Analysis of Iodine in Raw Milk Samples Using Inductively Coupled Plasma Mass Spectrometry.
P094	Ultra High-Performance Liquid Chromatography/Time-of-Flight Mass Spectrometry (uHPLC-TOF/MS) Drug Residue Screening in milk Samples

Microbiological Tests

P030	Operation and Maintenance of the BactoScan IBC. EN ISO 16140, IDF 161 (ISO/DIS 16297, 2010) and IDF 128-3/ISO 8196-3
P040	Petrifilm *Coliform* Count (PCC) Plate Method (SMEDP 7.070), Thermoduric Bacteria (LPC) (SMEDP 8.030), Aerobic Bacteria (SMEDP 6.040), Preliminary Incubation Method for Processed Milk Products (SMEDP 9.020)
P116	Identification of Selective Bacteria Causing Bovine Mastitis in Raw Milk

ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY

Drinking Waters

P039	Enzyme Substrate Test Method; Total *Coliform* and *E.coli* by Colilert. (SMofE 9223 B) Presence/Absence Quantitative by Quanti-tray (Colilert 18 and Colilert)

Water

Chemical

P059	pH Meter (HACH 8156)
P078	Trace metals and elemental determinations by Inductively Coupled Plasma-Mass Spectrometry for: (ICP-MS/EPA 200.8)
	Aluminum
	Antimony
	Arsenic
	Barium
	Beryllium
	Boron
	Cadmium
	Calcium
	Chromium
	Cobalt
	Copper
	Iron
	Lead
	Magnesium
	Manganese
	Mercury
	Molybdenum
	Nickel
	Potassium
	Selenium
	Silver
	Sodium
	Strontium

	Thallium
	Thorium
	Tin
	Titanium
	Uranium
	Vanadium
	Zinc
P091	Chlorine (Free and Total) in Water, DPD method (HACH 10231/10232)
P096	Total Phosphorus, Ascorbic Acid Method (HACH 10209/10210) Total Phosphorous Total Particulate Phosphorous Total Dissolved Phosphorous
P102	Volatile Organic Compounds and Four Trihalomethanes in Water By Gas Chromatography/Mass Spectrometry with Headspace (GC/MS). (Modified EPA 524.2) (Volatile Organic Compounds)
	(Trihalomethanes)
	1,1,1-Trichloroethane
	1,1,2 Trichloroethane
	1,2,4 Trichlorobenzene
	1,2-Dichloropropane
	1,4-Dichlorobenzene
	Benzene
	Bromodichloromethane
	Bromoform
	Chlorobenzene
	Chlorodibromomethane
	Chloroform
	cis 1,2 Dichloroethene
	Ethylbenzene
	Meta and Para Xylene
	Methylene chloride(dichloroethylene)
	Ortho Xylene
	Styrene
	Tert-Butyl methyl ether (MTBE)
	Tetrachloroethene
	Toluene
	Total Xylene
	Trans-1,2-Dichloroethene(dichloroethylene)

	Trichloroethylene(TCE)
P107	Determination of Sodium Adsorption Ratio (SAR) in Water (by calculation)
P109	Determination of Haloacetic acids Compounds in Water by SPE and Gas Chromatography with Electron Capture Detection (EPA 552.1)
	Bromochloroacetic Acid
	Dibromoacetic Acid
	Dichloroacetic Acid
	Monbromoacetic Acid
	Monochloroacetic Acid
	Trichloroacetic Acid
P050	Conductivity, Electrical Conductivity Meter (HACH 8160)
P051	Sodium, Ion Selective Electrode (HACH 8322)
P052	Chloride, Mercuric Thiocyanate Method (HACH 8113)
P053	Nitrate-Nitrogen, Dimethylphenol Method (HACH 10206)
P054	Nitrite-Nitrogen, Diazotization Method (HACH 10207)
P055	Nitrogen-Ammonia, Salicylate Method (HACH 10205)
P056	Simplified TKN, s-TKN Method (HACH 10242)
P083	Hardness, EDTA Titrimetic Method (HACH 8226)
P084	Sulfate, Turbimetric Method (HACH 8051)
P086	Fluoride, USEPA SPADNS Method) (HACH 10225)
P088	Chloride, Silver Nitrate Buret Titration Method (HACH 8225)
P090	Alkalinity, Buret Titration Method (HACH 8221)
P099	Turbidity; Nephelometric Method (HACH 2100Q) (SMofE, 2130 B)
P115	Determination of Total Dissolved Solids in Water by Gravimetric Method (SMofE, 2540 C)

Water (Microbiology)

P039	Enzyme Substrate Test Method; Total *Coliform* and *E.coli* by Colilert. (SMofE 9223 B) Presence/Absence Quantitative by Quanti-tray (Colilert 18 and Colilert)
P060	Enzyme Subtrate Method; SimPlate for Heterotrophic Plate Count (HPC) Unit Dose Method. (SMofE, 9215 E)
P087	Membrane Filter Technique for Members of the Coliform Group: Total *Coliform* (SMofE 9222 B), Thermo-tolerant (Fecal) *Coliform* Membrane Filter Procedure (SMofE 9222 D),

	Membrane Partition Procedures *(E. coli*.) (SMofE 9222 G) *Coliforms*, Total and E.coli m-ColiBlue24 (HACH 10029)
P110	Quantification of *Pseudomonas aeruginosa* in Water by membrane filtration technique (SMofE 9213 E)
P111	Presumptive analysis of Fecal *Streptococci* in Water by membrane filtration technique (SMofE 9230 C)

Number of Scope Listings: 39

Notes:

AOAC: Official Methods of Analysis of the Association of Official Analytical Chemists International, 17th Edition, Revision 2, 2003
ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories
Plant Protection Testing Laboratories
MFC: Multiple Food Component
IDF: International Dairy Federation
SMEDP: Standard Methods for the Examination of Dairy Products
SMofE: Standard Methods for the Examination of Water and Wastewater

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.

Elias Rafoul
Vice-President, Accreditation Services
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