

## TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

### Scope of Accreditation

**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: 204 488-2035

Fax: 204 488-4772

Website: [www.horizonlab.ca](http://www.horizonlab.ca)

Email: [kenk@horizonlab.ca](mailto:kenk@horizonlab.ca)

<b>SCC File Number:</b>	15160
<b>Accreditation Standard(s):</b>	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
<b>Fields of Testing:</b>	Biological Chemical/Physical
<b>Program Specialty Area:</b>	Agriculture Inputs, Food, Animal Health and Plant Protection (AFAP) Environmental Testing (ET)
<b>Initial Accreditation:</b>	1993-10-05
<b>Most Recent Accreditation:</b>	2023-07-25
<b>Accreditation Valid to:</b>	2025-10-05

*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 document issued separately.*

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

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

#### **Dairy Products**

#### **Unprocessed Milk:**

#### **Chemical Tests**

P001 Operational Procedure for the Combi7	(ISO 13366 / IDF 148-2) (ISO 9622/IDF 141C) By Fossomatic7 and MilkoScan7RM (Combi7) For: Fat, Protein, Lactose, Solids, Milk Urea Nitrogen, Freezing Point Depression, BHB and Somatic Cell Count In: raw milk
P022 Operation of CryoTouch 20 Cryoscope for the analysis of Freezing Point Depression in raw milk	(ISO 5764 / IDF 108) By Thermistor Cryoscope For: Freezing Point Depression In: raw milk
P037 Processing of Raw Milk Samples for the Presence of Drug Residue	(OM-564-009) By Charm EZ reader For: Beta-lactams, Sulfaonamides and Tetracyclines In: raw commingled milk
P038 Processing of Milk Samples for the Presence of Other or Unknown Drug Residue	(SMEDP 12.025) By DELVOTEST® SP-NT Milk Test kit For: Drug residue In: raw milk
P068	Analysis of Iodine in Raw Milk Samples Using Inductively Coupled Plasma Mass Spectrometry. (modified Perkin Elmer-The Determination of Iodine in Food with the ELAN DRC-e ICP-MS )

#### **Microbiological Tests**

<p>P030 Operation and Maintenance of the FOSS Bactoscan FC+ IBC</p>	<p>(EN ISO 16140, IDF 161)(ISO/DIS 16297, 2010) and (IDF 128-3/ISO 8196-3) By FOSS Bactoscan FC+ For: Enumeration of total bacterial count in IBC/μl. In: raw milk</p>
<p>P040 Bacteria analysis for raw milk samples Using 3M Petrifilm Plates</p>	<p>(SMEDP 7.070), (SMEDP 8.030), (SMEDP 6.040), (SMEDP 9.020) By 3M aerobic count petrifilm plate and 3M coliform petrifilm plate For: Aerobic, Coliforms and Thermotolerant bacteria In: raw milk</p>
<p>P116 Identification of Selective Bacteria causing Bovine Mastitis in raw milk using Bovine Blood Agar with Esculin Plates</p>	<p>(Laboratory Handbook on Bovine Mastitis) By Bovine blood Agar For: Yeast, Molds, Prototheca, Nocardia, Bacillus sp., C.bovis, Corynebacterium sp., T.pyogene, Staph. aureus, Staph sp., Strep. Sp., Strep. dysgalactiae, Strep. agalactiae, Strep. uberis, Lactococcus sp., Strep sp., Enterococcus sp., Pseudomonas sp., Pasteurella sp, M. hemolytica, E.coli, Klebsiella sp., Serratia sp., Enterob sp. Citrobac. sp., Proteus sp. In: raw bovine milk</p>

## ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY

### Water Quality:

#### Drinking Waters

<p>P039 Analysis of Total Coliforms in water using Colilert &amp; Colilert 18</p>	<p>(SMofE 9223 B) By Enzyme Substrate Method Quanti-tray and Presence/Absence For: Total coliforms and E. coli In: Drinking water</p>
<p>P087 Determination of Total and Fecal Coliform in Water by Membrane Filtration Method</p>	<p>(SMofE 9222 B), (SMofE 9222 D), (SMofE 9222 G), (SMofE 9222I) By Membrane filtration For: Total Coliforms, E.coli and Thermotolerant (Fecal) Coliforms In: Drinking water</p>

#### Water

#### Chemical

P059 Analysis of pH in water using the Electrode method	SMofE 4500-H+) By Electrometric Method For: pH In: water and wastewater
P078 Determination of trace elements in waters and wastewaters by ICP-MS	EPA200.8) By Inductively Coupled Plasma Mass Spectrometry For: Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Magnesium, Molybdenum, Mercury, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Thorium, Tin, Titanium, Uranium, Vanadium, Zinc, Sodium Adsorption (calculation), Hardness (calculation) In: water & wastewater
P091 Spectrophotometric determination of Total and Free Chlorine in water using DPD method (TNT867)	(HACH method 10231/10232) By HACH DR Spectrometer For: Total Chlorine Free Chlorine In: water and wastewater
P096 Spectrophotometric Determination of Total Phosphorus in Water by Ascorbic Acid method	(HACH 10209/10210) By DRB reactor and HACH DR Spectrometer For: Total Phosphorous Total Particulate Phosphorous (Calculation) Total Dissolved Phosphorous In: water and wastewater
P050 Determination of Conductivity in Water using an Electrical Conductivity Meter	(SMofE 2510B) By Nonplatinum-electrode For: Conductivity In: water and wastewater
P052 Spectrophotometric Determination of Chloride in Water using the	(HACH method 8113) By HACH DR Spectrometer For: Chloride In: water and wastewater
P053 Spectrophotometric Determination of Nitrogen-Nitrate in Water using the Dimethylphenol Method	(HACH method 10206) By HACH DR Spectrometer For: Nitrogen-Nitrate In: water, wastewater, and recreational water
P054 Spectrophotometric Determination of Nitrogen-Nitrite in Water using the Diazotization Method	HACH Method 10207) by HACH DR Spectrometer For: Nitrogen-Nitrite In: water and wastewater

P055 Spectrophotometric Determination of Nitrogen-Ammonia in Water using the Salicylate Method	(HACH Method 10205) by HACH DR Spectrometer For: Nitrogen-Ammonia In: water and wastewater
P056 Spectrophotometric Determination of Total Kjeldahl Nitrogen (TKN) in Water using the Persulfate Method	(HACH Method 10242) By DRB reactor and HACH DR Spectrometer For: Total Kjeldahl Nitrogen In: water and wastewater
P084	(modified+HACH Method 8051) Determination of Sulfate in Water by Turbidimetric Method By HACH DR Spectrometer For: Sulfate In: water and wastewater
P086 Determination of Fluoride in Water by Colorimetric Method with SPADNS	(HACH Method 10225) HACH DR Spectrometer For: Fluoride In: water and wastewater
P088 Determination of Chloride in Water by Complexometric Titration with Silver Nitrate	(HACH 8225) By Titration For: Chloride In: water and wastewater
P090 Determination of Total Alkalinity in Water by an Acid-Base Titration with Phenolphthalein & Bromcresol Green-Methyl Red	(HACH 8221) By Titration For: Alkalinity Hydroxide Alkalinity (conversion) Carbonate Alkalinity (conversion) Bicarbonate Alkalinity (conversion) In: water and wastewater
P099 Determination of Turbidity in Water by Nephelometric Method	(SMofE 2130B) By HACH Turbidimeter For: Turbidity In: water and wastewater
P115 Determination of Total Dissolved Solids (TDS) in Water by Gravimetric Method	(SMofE 2540C) By Gravimetric Method For: Total Dissolved Solids In: water and wastewater

### Water (Microbiology)

P039 Analysis of Total Coliforms in water using Colilert & Colilert 18	(SMofE 9223 B) By Enzyme Substrate Method /Quanti-tray and Presence/Absence For: Total coliforms and E. coli In: water and wastewater
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P060 Analysis of Heterotrophic Plate Count in water using IDEXX simplates	(SMofE 9215) By Enzyme Substrate Method For: Heterotrophs In: water, wastewater and recreational water
P087 Determination of Total and Fecal Coliform in Water by Membrane Filtration Method	SMofE 9222 B), (SMofE 9222 D), (SMofE 9222 G), (SMofE 9222I) By Membrane filtration For: Total Coliforms, E.coli and Thermotolerant (Fecal) Coliforms In: water, wastewater, recreational waters
P110 Quantification of Pseudomonas aeruginosa in water by membrane filtration technique	(SMofE 9213E) By Membrane Filtration method For: Pseudomonas aeruginosa In: water

Number of Scope Listings: 30

**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](http://www.scc.ca).

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Elias Rafoul  
Vice-President, Accreditation Services  
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