



SCOPE OF ACCREDITATION

Dairy Farmers of Manitoba
HORIZON LAB LTD.
4055 Portage Avenue
Winnipeg, MB
R3K 2E8

Accredited Laboratory No. 125
(Conforms with requirements of ISO/IEC 17025:2017)

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| CONTACT: | Ken Kwiatkowski |
| TEL: | +1 204 488 2035 |
| FAX: | +1 204 488 4772 |
| EMAIL: | kenk@horizonlab.ca |
| URL: | http://www.horizonlab.ca/ |
| 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: | 1993-10-05 |
| MOST RECENT REACCREDITATION: | 2017-08-22 |
| ACCREDITATION VALID TO: | 2021-10-05 |

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 fluoro-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,
CHARM® 3 SL3 Beta-Lactam Test
CHARM® Sulfa Test
CHARM® Tetracycline Test
- 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), Thermotolerant Bacteria (LPC) (SMEDP 8.030), Aerobic bacteria (SMEDP 6.040), Preliminary Incubation Method for Processed Milk Products (SMEDP 9.020)
- P112 Identification of selective bacteria causing mastitis in raw milk using Hardy diagnostics mastitis triplate (SMEDP 5.100)
- 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 24)

(Water (Chemical))

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| P059 | pH, Probe (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 |
| P085 | Calcium, Hardness by EDTA Titrimetric Method (HACH 8222) |
| P091 | Chlorine (Free and Total) in Water, DPD method (TNT 867) (HACH 10231/10232) |
| P096 | Total Phosphorus, Ascorbic Acid Method (HACH 10209/10210) Total Phosphorous |



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| | 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 |
| PO50 | Conductivity, Probe (HACH 8160) |
| PO51 | Sodium, Ion Selective Probe (HACH 8359) |
| PO52 | Chloride, Mercuric Thiocyanate Method (HACH 8113) |
| PO53 | Nitrate-Nitrogen, Dimethylphenol Method (HACH 10206) |



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| PO54 | Nitrite-Nitrogen, Diazotization Method (HACH 10207) |
| PO55 | Nitrogen-Ammonia, Salicylate Method (HACH 10205) |
| PO56 | Simplified TKN, s-TKN Method (HACH 10242) |
| PO83 | Hardness, EDTA Titrimetric Method (HACH 8226) |
| PO84 | Sulfate, Turbimetric Method (HACH 8051) |
| PO86 | Fluoride, USEPA Spadns Method) (HACH 10225) |
| PO88 | Chloride, Silver Nitrate Buret Titration Method (HACH 8225) |
| PO90 | Alkalinity, Buret Titration Method (HACH 8221) |
| PO97 | Color, True and Apparent (HACH 8025) |
| PO98 | Acidity, Phenolphthalein Method (HACH 8010) |
| PO99 | Turbidity (HACH 2100Q) |
| P115 | Determination of Total Dissolved Solids in Water by Gravimetric Method |

Water (Microbiology)

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| P039 | Enzyme Substrate Test Method; Total <i>Coliform</i> and <i>E.coli</i> by Colilert. (SMofE 9223 B) Presence/Absence Quantitative by Quanti-tray (Colilert 18 and 24) |
| P060 | Enzyme Substrate Method; SimPlate for Heterotrophic Plate Count (HPC) Unit Dose Method. (SMofE, 9215 E) |
| P087 | Membrane Filter Technique for Members of the Coliform Group: Total <i>Coliform</i> (SMofE 9222 B), Thermo-tolerant (Fecal) <i>Coliform</i> Membrane Filter Procedure (SMofE 9222 D), Membrane Partition Procedures (<i>E. coli.</i>) (SMofE 9222 G) <i>Coliforms</i> , Total and <i>E.coli</i> m-ColiBlue24 (HACH 10029) |
| P110 | Quantification of <i>Pseudomonas aeruginosa</i> in water by membrane filtration technique (SMofE 9213 E) |
| P111 | Presumptive analysis of Fecal <i>Streptococci</i> in water by membrane filtration technique (SMofE 9230 C) |

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



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SMEDP: Standard Methods for the Examination of Dairy Products

SMofE: Standard Methods for the Examination of Water and Wastewater

Elias Rafoul, Vice-President
Accreditation Services

Date: 2019-07-04

Number of Scope Listings: 41
SCC 1003-15/160
Partner File #0
Partner: None