

## TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

### Scope of Accreditation

**Legal Name of Accredited Laboratory:** **Silliker Canada Co. Ltd.**

Location Name or Operating as (if applicable): Operating as Mérieux NutriSciences

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<b>SCC File Number:</b>	15024
<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)
<b>Initial Accreditation:</b>	1984-10-10
<b>Most Recent Accreditation:</b>	2024-05-17
<b>Accreditation Valid to:</b>	2028-10-10

**SCC Group Accreditation:**

This laboratory is part of a Group Accreditation with the following facilities in accordance with SCC's policy on Group Accreditation documented in the Accreditation Services Accreditation Program Overview: Silliker Canada Co.Ltd, dba Mérieux NutriSciences, Burnaby, BC (file # 15180).

*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):

#### Foods

##### (Chemistry, Aflatoxins)

QA-0120-2315	Total Aflatoxins in Foods and Feeds by Aflatest Immunoaffinity Method (VICAM)
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##### (Chemistry, Fat Components)

QA-9901-1863	Cholesterol in Foods - Direct Saponification By: GC Modified from: AOAC 994.10
QA-9901-2056	Total Fat and Fatty Acids by Gas Chromatography For: Saturates, Trans, Cis-monounsaturates, Cis, Cis-polyunsaturates, Omega-3 polyunsaturates, Omega-6 polyunsaturates Modified from: AOAC 996.06, 969.33 and 6th edition Ce-1h-05

##### (Chemistry, Minerals)

QA-9901-1146	Minerals in Foods - Inductively Coupled Plasma For: Calcium, Copper, Iron, Magnesium, Manganese, Phosphorus, Potassium, Sodium, Zinc Modified from: AOAC 984.27, 985.01
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##### (Chemistry, Proximates)

AS-CC-002	Insoluble, Soluble and Total Dietary Fiber in Foods (CODEX Definition) (modified AOAC 2011.25)
QA-0220-4410	Total Dietary Fibre (Modified Procedure with Single Residue) (modified AOAC 991.43) By: Enzyme digestion
QA-0200-4101	Moisture by Vacuum Oven (modified AOAC 925.09, 925.40, 926.08, 926.12, 931.04, 925.30, 927.05, 934.06)
QA-0200-4102	Moisture by Forced Air Oven (modified AOAC 950.46B, 952.08, 925.23, 941.08)
QA-9901-1119	Ash in Foods (modified AOAC 920.153, 923.03, 935.42, 945.46) By: Ignition
QA-0210-4212	Determination of Fat in Foods by Mojonnier Extraction with Acid Hydrolysis (modified AOAC 922.06, 925.32, 933.05, 935.38, 948.15, AACC 30-10) Analyte Total fat
QA-0210-4201	Fat in Food Products by the Soxhlet Procedure (modified AOAC 960.39)
QA-9901-1190	Insoluble and Soluble Dietary Fibre (modified AOAC 991.43)
QA-9901-1208	Sugars in Foods by HPLC (modified AOAC 982.14, 980.13) Analytes Fructose, Glucose, Lactose, Maltose, and Sucrose
QA-0215-4350	Protein by the Kjeldahl Method - Boric Acid Method (Rapid Distill Method) (modified AOAC 991.20, 920.123)

QA-0210-4213	Determination of Fat in Dairy Products by Mojonnier Extraction with Base Hydrolysis (modified AOAC 905.02, 989.05) Analyte: Total fat Matrices: Milk, buttermilk, cream, whey, ice cream mix, evaporated milk, condensed milk, powdered (dry) milk
QA-9901-2200	Protein-Combustion Method (modified AOAC 992.15, 992.23, 968.06, 990.03) Matrices: Food, feeds, and dietary fibre residues

**(Chemistry, Vitamins)**

QA-9901-1783	Vitamin E (alpha tocopherol) in Foods (modified AACC 86-06) By: HPLC
QA-9901-1176	Thiamine (Vitamin B1) and Riboflavin (Vitamin B2) in Foods (modified AOAC 942.23, 981.15, J. Food Comp. and Analysis Vol. 2 (1) 41(1989)) By: HPLC
QA-9901-1419	Niacin and Niacinamide in Foods and Vitamin Preparations (modified AOAC 960.46, 944.13, FDA 340, 1996) By: Nephelometry
QA-9901-1771	Total Folate in Foods and Vitamin Preparations (modified AOAC 960.46, 944.12, FDA 332, 1996) By: Nephelometry
QA-9901-1784	Pyridoxine (Vitamin B6) in Foods and Vitamin Preparations (modified AOAC 960.46, 961.15, FDA 400, 1996) By: Nephelometry
QA-9901-1785	Cobalamin (Vitamin B12) in Foods and Vitamin Preparations (modified AOAC 960.46, 952.20, 986.23, FDA 410, 1996) By: Nephelometry
QA-9901-1786	Biotin in Foods (modified FDA 310, 1996) By: Nephelometry
QA-9901-1788	Pantothenic Acid in Foods and Vitamin Preparations (modified AOAC 960.46, 945.74, 992.07, FDA 361, 1996) By: Nephelometry
QA-9901-1818	Vitamin A (retinol and beta-carotene) in Foods (modified AOAC 2001.13, Methods of Vitamin Assays, 4th ed., (1985)) By: HPLC
QA-9901-3761	Determination of Vitamin C in Food by HPLC(modified: CFIA, Longueuil Food Laboratory, LCAQ-001-09)

**(Chemistry, Miscellaneous)**

MFHPB-03	Determination of the pH of foods including foods in hermetically sealed containers (QA-9901-3081)
MFLP-66	Determination of Water Activity Using the Aqualab Instrument (QA-9901- 3263)
QA-9901-1135	Chloride (Salt) in Meat and Cheese By: Titration (modified AOAC 935.47, 935.43, 937.09)

QA-0245-2305	Salt by Potentiometric Titration (modified AOAC 983.14)
QA-9901-2057	Determination of Ethanol in Beverage Alcohol by GC-FID (modified AOAC 984.14, 983.13)
QA-9901-1217	Benzoate and Sorbate in Foods by HPLC (modified JAOAC 1985:68 (488))
QA-9901-1227	Peroxide Value (modified AOCS Cd 8b-90) By: Titration Matrices: Normal fats and oils, including margarine, nuts, meats, and fish products
QA-9901-3774	Caffeine Analysis in Foods (modified JAOAC 1993:76, AOAC 979.08) By: HPLC
QA-0350-1800	Sulfites in Foods (modified AOAC 990.28) By: Titration
QA-9901-3079	Allergens in Foods & Environmentals By: Quantifiable Immunoassay Testing-ELISA Almond                                      Beta Lactoglobulin                                      Brazil Casein    Cashew    Egg and Egg Protein Gliadin    Hazelnut    Macadamia Mustard    Peanut    Pecan Pistachio    Sesame Seeds Protein                                      Soy Total Milk    Walnut

**(Microbiology, Enumeration)**

ISO 21528-2	Microbiology of food and animal feeding stuffs - Horizontal methods for the detection and enumeration of <i>Enterobacteriaceae</i> - Part 2: Colony-count technique [QA-0017-0240]
MFHPB-18	Determination of the Aerobic Colony Count in Foods [QA-9901-1001]
MFHPB-19	Enumeration of Coliforms, Faecal Coliforms and of <i>E. coli</i> in Foods Using the MPN Method [QA-9901-3187]
MFHPB-21	Enumeration of <i>Staphylococcus aureus</i> in Foods [QA-9901-1003]
MFHPB-22	Enumeration of Yeasts and Moulds in Foods [QA-9901-1019]
MFHPB-23	Enumeration of <i>Clostridium perfringens</i> in Foods [QA-9901-1039]
MFHPB-31	Determination of Coliforms in Foods Using Violet Red Bile Agar [QA-9901-1002]
MFHPB-33	Enumeration of Total Aerobic Bacteria in Food Products and Food Ingredients Using 3M™ Petrifilm™ Aerobic Count Plates [QA-9901-3511]
MFHPB-34	Enumeration of <i>Escherichia coli</i> and Coliforms in Food Products and Food Ingredients Using 3M Petrifilm™ <i>E. coli</i> Count plates [QA-9901-2144]
MFHPB-35	Enumeration of Coliforms in Food Products and Food Ingredients Using 3M™ Petrifilm™ Coliform Count Plates [QA-9901-2326]
MFLP-09	Enumeration of <i>Enterobacteriaceae</i> Species in Food and Environmental Samples using 3M™ Petrifilm™ Enterobacteriaceae Count Plates [QA-9901-2325]
MFLP-21	Enumeration of <i>Staphylococcus aureus</i> in Foods and Environmental Samples Using 3M™ Petrifilm™ Staph Express Count (STX) Plates [QA-9901-3568]
MFLP-42	Isolation and enumeration of the <i>Bacillus cereus</i> Group in Foods [QA-9901-1040]
MFLP-74	Enumeration of <i>Listeria monocytogenes</i> in Food [QA-9901-2148]

QA-9901-1009	Enumeration of Coliforms, Faecal Coliforms and of <i>E. coli</i> in Foods using the MPN Method MFHPB-19 Modified for 3 Tube
QA-9901-1040	Isolation and enumeration of the <i>Bacillus cereus</i> Group in Foods using Method MFLP-42 modified for detection limit < 10 CFU/g

**(Microbiology, Examination and Detection)**

Assurance GDS MPX Top 7 STEC Assay	Assurance GDS Shiga Toxin Producing <i>E. coli</i> Top 7 MPX [QA-0025-0848]
ISO 21528-1	Microbiology of food and animal feeding stuffs – Horizontal method for the detection and enumeration of <i>Enterobacteriaceae</i> - Part 1: Detection of <i>Enterobacteriaceae</i> [QA-0017-0230]
MFHPB-01	Determination of Commercial Sterility and the Presence of Viable Microorganisms in Canned Foods [QA-9901-1317]
MFHPB-07	The Isolation of <i>Listeria monocytogenes</i> and other <i>Listeria</i> spp. from Foods and Environmental Samples Using Palcam Broth [QA-9901-3379]
MFHPB-10	Isolation of <i>Escherichia coli</i> O157:H7/NM from foods and environmental surface samples [QA-9901-3381]
MFHPB-20	Isolation and Identification of <i>Salmonella</i> from Food and Environmental Samples [QA-9901-1007]
MFHPB-24	Detection of <i>Salmonella</i> spp. in foods by the VIDAS SLM™ Method [QA-9901-2314]
MFHPB-29	Detection of <i>Listeria</i> spp. in Foods and Environmental Samples by the VIDAS Listeria™ Method [QA-9901-3202]
MFHPB-30	Isolation of <i>Listeria monocytogenes</i> and other <i>Listeria</i> spp. from Foods and Environmental Samples [QA-9901-3005]
MFLP-15	Detection of <i>Listeria</i> species from Environmental Surfaces Using the BAX® System Genus Listeria Assay [QA-9901-3681]
MFLP-16	Detection of <i>Escherichia coli</i> O157:H7 in Foods-Assurance GDS® for <i>E. coli</i> O157:H7 Tq Gene Detection System [QA-9901-3744]
MFLP-25	Isolation and Identification of <i>Shigella</i> spp. from Foods [QA-9901-3687]
MFLP-28	Detection of <i>Listeria monocytogenes</i> in a Variety of Foods and Environmental Surfaces Using the BAX® System L. Monocytogenes Assay [QA-9901-3335]
MFLP-29	Detection of <i>Salmonella</i> in Foods and Environmental Surface Samples Using the BAX® System Salmonella Assay [QA-9901-3297]
MFLP-30	Detection of <i>Escherichia coli</i> O157:H7 in Select Foods Using the BAX® System PCR Assay <i>E. coli</i> O157:H7 MP [QA-9901-3336]
MFLP-33	Detection of <i>Listeria monocytogenes</i> in Foods by the VIDAS LMO 2™ Method [QA-9901-3251]
MFLP-38	Detection of <i>Salmonella</i> spp. from all Foods and Selected Environmental Surfaces Using iQ-Check™ Salmonella Real-Time PCR Test Kit [QA-9901-3766]

MFLP-39	Detection of <i>Listeria</i> spp. from Environmental Surfaces and Heat Processed Ready to Eat Meat and Poultry Using iQ-Check™ <i>Listeria</i> spp. Real-Time PCR Test Kit [QA - 9901- 3764]
MFLP-46	Isolation of thermophilic <i>Campylobacter</i> from Food [QA-9901-1781]
MFLP-49	Detection of <i>Salmonella</i> spp. in Food Products and Environmental Surfaces by the VIDAS® UP Salmonella (SPT) Method [QA-9901-3760]
MFLP-54	Detection of <i>Listeria monocytogenes</i> from Selected Foods Using iQ-Check™ <i>Listeria monocytogenes</i> Real-Time PCR Test Kit [QA-9901-3765]
MFLP-59	Detection of <i>Listeria</i> spp. in Food Products and Environmental Surface Samples with VIDAS® UP Listeria (LPT) [QA-9901-3762]
MFLP-65	Detection of Staphylococcal enterotoxins in food products using the VIDAS® Staph Enterotoxin II (SET2), an ELFA (Enzyme Linked Fluorescent Assay) technique [QA-9901-1078]
MFLP-76	Detection of <i>Escherichia coli</i> O157:H7 in raw meat trim and raw ground meat using the BAX® System Real-Time <i>E. coli</i> O157:H7 Assay [QA-9901-3749]
MFLP-77	Detection of <i>Listeria monocytogenes</i> and other <i>Listeria</i> spp. in food products and environmental samples by the VIDAS® Listeria species Xpress (LSX) method [QA-9901-3747]
MFLP-86	Identification of vt1 and vt2 genes from Verotoxigenic <i>Escherichia coli</i> by Polymerase Chain Reaction [QA-9901-3381]
QA-9901-3561 (MLG 4C.07)	FSIS Procedure for the Use of a Polymerase Chain Reaction (PCR) Assay for Screening Salmonella in Meat, Poultry, Egg and Siluriformes (Fish) Products and Carcass and Environmental Sponges USDA FSIS former procedure MLG 4C.07
USDA-FSIS MLG 4	Isolation and Identification of <i>Salmonella</i> from Meat, Poultry, Pasteurized Egg and Siluriformes (Fish) Products and Carcass and Environmental Sponges [QA-9901-3262]
USDA-FSIS MLG 5C	Detection, Isolation and Identification of Top Seven Shiga Toxin-Producing <i>Escherichia coli</i> (STECs) from Meat Products and Carcass and Environmental Sponges [QA-9901-3768]
QA-9901-3578 (MLG 5A.04)	FSIS Procedure for the Use of <i>Escherichia coli</i> O157:H7 Screening Tests for the Meat Products and Carcass and Environmental Sponges From USDA FSIS former procedure MLG 5A.04 using BAX® platform
QA-0025-0920 (MLG 5B.05)	Detection and Isolation of Non-0157 Shiga Toxin Producing <i>Escherichia coli</i> (STEC) from Meat Products and Carcass and Environmental Sponges From USDA FSIS former procedure MLG5B.05 using BAX® platform
QA-9901-3579 (MLG 8A.06)	FSIS Procedure for the Use of a <i>Listeria monocytogenes</i> Polymerase Chain Reaction (PCR) Screening Test From USDA FSIS former procedure MLG 8A.06

### Water

QA-9901-3776	Heterotrophic Plate Count by Membrane Filtration Modified from SMEWW 9215-D and CMMEF 5th Ed.
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QA-9901-3777	Simultaneous Detection Of Total Coliform and E.coli by Dual Chromogen Membrane Filter Procedure From SMEWW 9222-J
QA-9901-3778	Yeast and Mould Plate Count by Membrane Filtration From: SMEWW 9610-D and Modified AFNOR BKR 23/11-12/18
QA-9901-3779	Membrane Filter Technique for enumeration of Fecal Coliforms From: SMEWW 9222-D

**Feeds**

QA-9901-1000	Crude Fibre in Feeds (ANKOM Analyzer) (modified AOCS Ba 6a-05)
QA-9901-2200	See above under major sub-heading "Foods and Edible Products"

**CHEMICALS AND CHEMICAL PRODUCTS**

**Pharmaceuticals and Cosmetics:**

**(Antimicrobial Preservatives)**

USP <51>	Antimicrobial Effectiveness Testing [QA-9901-1772]
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Number of Scope Listings: 90

**Notes:**

**AACC:** American Association of Cereal Chemists

**AOAC:** Association of Official Analytical Chemists - Official Methods of Analysis

**AOCS:** Official Methods and Recommended Practices of the AOCS

**CMMEF:** Compendium of Methods for the Microbiological Examination of Foods

**CFIA:** Canadian Food Inspection Agency

**FDA:** Food and Drug Administration (USA)

**FSIS:** Food Safety and Inspection Services

**ISO:** International Organization for Standardization

**JAOAC:** Journal of the Association of Official Analytical Chemists

**MFHPB:** Compendium of Analytical Methods, Methods for the Microbiological Analysis of Foods, Health Canada

**MFLP:** Compendium of Analytical Methods, Laboratory Procedures for Microbiological Analysis of Foods, Health Canada

**USFDA (1996):** Methods for Microbiological Analysis of Selected Nutrients Published by AOAC

**USP:** United States Pharmacopeia



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