

**TESTING AND CALIBRATION LABORATORY
ACCREDITATION PROGRAM (LAP)**

Scope of Accreditation

Accredited Laboratory No. 116

Legal Name of Accredited Laboratory: **Silliker Canada Co. Ltd. (Mérieux NutriSciences)**

Location Name or Operating as (if applicable): Cathy Cardinall

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| SCC File Number: | 15180 |
| 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) |
| Initial Accreditation: | 1993-06-08 |
| Most Recent Accreditation: | 2021-07-05 |
| Accreditation Valid to: | 2025-06-08 |

ANIMAL AND PLANTS (AGRICULTURE)

Foods and Edible Products (Human and Animal Consumption):

Foods (includes tests done on multiple of the food categories given below)

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| QA-0350-2000 | Phthalates in Foods, Water, Oil and Personal Care Products by GC-MS/MS |
| AS-CC-015 | Determination of 4-Methyl Imidazole in Food by LC-MS/MS |
| M-C041a | Determination of Sulfites in Foods Using Monier – Williams Method |
| M-C043 | Determination of Toxic Heavy Metals and Elements in Foods by ICP/MS |
| M-C557 | Arsenic Speciation in Rice, and Rice Products, Water and Dairy Using High Performance Liquid Chromatography-Inductively Coupled Plasma-Mass Spectrometric Determination |
| M-H127 | Determination of Sulfonamide Residues in Honey, Eggs and Dairy Products by LC/MS/MS |
| M-H146b | Determination of Acrylamide in Food by LC/MS/MS |
| M-H317a | Determination of Aflatoxin B1, B2, G1 and G2 in Food by LC/MS/MS |
| M-H402b | Determination of Melamine and Cyanuric Acid in Food and Pet Food Using Liquid Chromatography with Tandem Mass Spectrometry |
| M-H402f | Method for Determination of Melamine Residue in Foods using LC/MS/MS |
| M-H422 | Determination of Oil- and Water- Soluble Dyes in Fat-Soluble and Processed Foods by LC/MS/MS |
| M-H422a | Determination of Water-Soluble Colours in Foods by HPLC |
| M-H552d | Determination of Perchlorate and Chlorate in Water and Dairy Products, and Perchlorate in Fruit (Only for: Apples) by LC/MS/MS |
| M-H559 | Determination of Herbicides in Food by LC/MS/MS |
| M-H561 | Multimycotoxins Analysis in Food by LC/MS/MS |
| M-H566 | Determination of Histamine in Food |
| M-H575 | Determination of Bisphenol A (BPA), Bisphenol S (BPS), Bisphenol F (BPF) and Bisphenol A Diglycidyl Ether (BADGE) in Infant Formula and Processed Food using LC/MS/MS |
| M-H577 | Multi-Class Antibiotic Residues in Dairy and Egg by LC/MS/MS |
| M-H578 | Determination of Multi-Class Antibiotics in Animal Tissue and Cooked, Processed Foods by LC/MS/MS |

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| M-H579 | Determination and Confirmation of Coccidiostats in Animal Tissue, Eggs and Dairy using LC/MS/MS |
| M-H580 | Determination of Glyphosate and AMPA, Glufosinate and Ethephon in Fruits, Vegetables, Honey and Processed Food by LC/MS/MS |
| M-H603 | Determination and Confirmation of Total Tulathromycin Residues, Analyzed as CP-60,300, Expressed as Tulathromycin Equivalents in Bovine, Equine and Porcine Kidney, Liver and Muscle, Dairy, Egg and Honey by LC-MS/MS |
| M-H611 | Determination of Furfuryl Alcohol in Foods by GC-MS |
| M-P062 | 3-MCPD in Food Products by GC/MSD or GC/MS/MS |
| QA-0200-4116 | Water Activity Determination of Foods |
| QA-0200-4101 | Moisture by Vacuum Oven |
| QA-0200-4102 | Moisture by Forced Air Oven |
| QA-0210-4229 | Fat in Food Products by Ether Extraction, Submersion Method |
| QA-0215-4350 | Protein by the Kjeldahl Method - Boric Acid Method (Rapid Distill Method) |
| QA-0225-2001 | Ash by Ignition (Dry Ashing) |
| QA-0245-2305 | Salt by Potentiometric Titration |
| QA-0270-5304 | pH of Various Foods |

Dairy Products

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| M-C044d | Nitrites in Water and Milk |
| M-C044e | Nitrates in Water and Milk |
| M-C563 | Inorganic Mercury in Water and Dairy using High Performance Liquid Chromatography-Inductively Coupled Plasma-Mass Spectrometric Determination |
| M-H078dn | Determination of Vitamin D3 (Cholecalciferol) in UHT milk by LC/MS/MS |
| M-H175 | Aflatoxins in Dairy Products |
| M-H361d | Determination and Confirmation of Nitroimidazoles in Dairy by LC/MS/MS |
| M-H402d | Determination and Confirmation of Melamine, Ammeline, Ammelide, and Cyanuric Acid in Dairy by LC/MS/MS |
| M-H593 | Determination and Confirmation of Triazoxide, Sulcotrione and Tembotrione in Dairy Products by LC/MS/MS |
| M-H594 | Determination and Confirmation of Pesticides in Dairy Products by GC/MS/MS and LC/MS/MS |

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| M-H596 | Determination and Confirmation of Metamizole and Phenylbutazone in Dairy by LC/MS/MS |
| M-H597 | Determination and Confirmation of Ethylenethiourea and Propylenethiourea in Dairy by LC/MS/MS |
| M-H598 | Determination and Confirmation of Quaternary Ammonium Compounds (QACs) in Dairy by LC/MS/MS |
| M-H616 | Determination of Non-steroidal Anti-inflammatory Drugs (NSAIDs) in Milk by LC/MS/MS |
| M-P057d | Determination and Confirmation of Metabolites of Nitrofurans in Milk |
| M-P072 | Determination of Organochlorines in Dairy Products |
| M-P533 | Determination and Confirmation of PAHs in Dairy by GC/MS/MS |
| M-P535 | Determination and Confirmation of Furans and Methylfurans in Dairy by Headspace GC/MS |
| M-P540 | Ethanol in Dairy by GC-FID |

Honey / Processed Fruits and Vegetables

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| M-H126 | Phenicol Residues in Honey |
| M-H129 | Tetracycline Residues in Honey |
| M-H141 | Benomyl in Fresh and Processed Fruits and Vegetables, Honey and Syrup |
| M-H194 | Ionophores in Honey |
| M-H195 | Fluoroquinolones in Honey |
| M-H220 | Nitrofurans Metabolites in Honey |
| M-H239 | Macrolide Residues in Honey |
| M-H362a | Aminoglycosides in Honey |
| M-H364 | Penicillin Residues in Honey |
| M-H450 | Determination of Fumagillin in Honey by LC/MS/MS |
| M-H553 | Determination of Pesticides in Fresh and Processed Fruits and Vegetables by GC/MS/MS and LC/MS/MS |
| M-H574 | Determination and Confirmation of Multi-Antibiotic Residues and Honey using LC/MS/MS |
| M-H619 | Determination of Fumagillin and Multi-Class Veterinary Drug Residues in Honey by LC/MS/MS |
| M-H629 | Determination of Diquat and Paraquat in Fresh Fruits and Vegetables and Processed Food by LC/MS/MS |
| M-P007h | Pesticides in Honey by GC/MS/MS and LC/MS/MS |

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| M-P031 | Determination of Daminozide in Fresh and Processed Fruits and Vegetables and Honey |
| M-P053 | Determination of Ethylene Bi-dithiocarbamates (EBDCs) in Fresh and Processed Fruits Vegetables, Honey and Syrup by CS2 Evolution |
| M-P061 | Determination of Amitraz in Fresh and Processed Fruits and Vegetables |
| M-P061a | Amitraz in Honey |
| M-P075 | Determination of Ethylenethiourea in Fresh and Processed Fruits and Vegetables, and Honey |
| M-P078 | Extraction of EBDC from Fresh and Processed Fruits and Vegetables, Honey and Syrup as Ethylenediamine |
| QA-0350-1303 | Determination of Amitraz in Honey and Fresh and Processed Fruits and Vegetables |

Grains and Cereal

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| M-H441 | Determination of Ochratoxin A (OTA) in Grains and Cereal by LC/MS/MS |
| M-H446 | Determination of Deoxynivalenol (DON) in Cereal Grains and Cereal Products using Immunoaffinity Column Clean-up and LC/MS/MS |
| M-H551 | Determination of Fumonisin B1 and B2 in Cereal Grains and Cereal Products using Immunoaffinity Column Clean-up and LC/MS/MS |
| M-H563 | Determination of Glycoalkaloids in Potato and Potato Based Food using LC/MS/MS |
| M-H606 | Determination of Ergot Alkaloids in Cereal Grains by LC/MS/MS |
| M-H607 | Determination of T2 and HT-2 in Cereal Grains by LC/MS/MS |
| M-H608 | Determination of Zearalenone, α -Zearalenol, β -Zearalenol in Cereal Grains by LC/MS/MS |

Meat / Animal Tissue and Animal Derived Foods

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| M-H179 | Penicillins in Animal Tissue and Animal Derived Foods |
| M-H182 | Endectocides in Animal Tissue and Animal Derived Foods |
| M-H185 | Ceftiofur-Related Residues in Animal Tissue and Animal Derived Foods |
| M-H186 | Dipyron in Animal Tissue and Animal Derived Foods |

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| M-H188 | Tetracycline Residues in Animal Tissue and Animal Derived Foods |
| M-H189 | Macrolides in Animal Tissue and Animal Derived Foods |
| M-H191 | Sulfonamides in Animal Tissue and Animal Derived Foods |
| M-H193 | Ionophores in Animal Tissue and Animal Derived Foods by LC/MS/MS |
| M-H356 | Virginiamycin Residues in Animal Tissue and Animal Derived Foods |
| M-H358 | Bacitracin Residues in Animal Tissue and Animal Derived Foods |
| M-H360 | Desoxycarbadox and other Carbadox and Olaquinox-related Metabolites in Animal Tissue and Animal Derived Foods |
| M-H361 | Nitroimidazole Residues in Animal Tissue and Animal Derived Foods |
| M-H362 | Determination of Aminoglycosides in Animal Tissue and Animal Derived Foods |
| M-H363 | Determination of Phenicols in Animal Tissue and Animal Derived Foods |
| M-H448 | Determination and Confirmation of Non-steroidal Anti-inflammatory drugs (NSAIDS), Hormones and Corticosteroid Drug Residues in Animal Tissue and Animal Derived Foods |
| M-H553m | Determination of Pesticides in Meat, Eggs and Dairy by GC/MS/MS and LC/MS/MS |
| M-H581 | Free Beta Agonists in Animal Tissue and Animal Derived Foods using LC/MS/MS |
| M-H584 | Determination of Tiamulin as 8-alpha-hydroxymutilin in Animal Tissue by LC/MS/MS |
| M-H615 | Determination of Trenbolone, Stilbenes, and Resorcylic Acid Lactones in Animal Tissue and Dairy by LC/MS/MS |
| M-H617 | Determination and Confirmation of Non-steroidal Anti-inflammatory (NSAID), Steroid, Hormone and Tranquilizer Drug Residues in Animal Tissue, Dairy and Egg by LC/MS/MS |
| M-H621 | Determination of Multi-Class Antibiotic Residues in Dairy, Egg and Meat by LC/MS/MS |
| M-P035 | Determination of Fluoroquinolones and Quinolones in Animal Tissue and Animal Derived Foods |
| M-P040 | Determination of Decoquinatate in Animal Tissue and Animal Derived Foods |

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| M-P042 | Determination of Gestagens in Animal Tissue and Animal Derived Foods |
| M-P043 | Determination of Chlorophenols in Animal Tissue and Animal Derived Foods |
| M-P046 | Determination of Thyreostatics in Animal Tissue and Animal Derived Foods |
| M-P047 | Identification and Quantitation of Trenbolone in Animal Tissue and Animal Derived Foods |
| M-P057 | Determination of Protein Bound Metabolites of Nitrofurans in Animal Tissue and Animal Derived Foods |
| M-P059 | Determination of Zeranol and Stilbenes in Animal Tissue and Animal Derived Foods |
| M-P063 | Determination of Carbamates in Animal Tissue and Animal Derived Foods |
| M-P065 | Synthetic Pyrethrins in Animal Tissue and Animal Derived Foods |
| M-P068 | Determination of Anthelmintics in Animal Tissue and Animal Derived Foods |
| M-P074 | Determination of Benzimidazole in Animal Tissue and Animal Derived Foods |
| M-P079 | Determination of Tranquillizers in Animal Tissue and Animal Derived Foods |
| QA-0400-9001 | Beta Agonists in Animal Tissue and Animal Derived Foods |

Fish / Seafood / Egg

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| M-C286 | Histamine in Fish |
| M-C563f | Methyl Mercury in Seafood Using High Performance Liquid Chromatography-Inductively Coupled Plasma-Mass Spectrometric Determination |
| M-H209 | Phenicol Residues in Fish, Shellfish and Crustaceans |
| M-H212 | Emamectin and Ivermectin in Fish and Shellfish |
| M-H248 | Nitrofurans Metabolites in Fish and Shellfish |
| M-H249 | Romet-30, Tribissen, and Sulfonamides in Fish and Shellfish |
| M-H250 | Triphenylmethane Dyes in Fish and Shellfish |
| M-H318 | Tetracycline Residues in Fish and Shellfish |
| M-H442 | Determination of Fluoroquinolones and Quinolones in Fish and Shellfish by LC/MS/MS |
| M-H443 | Erythromycin in Fish and Shelled Fish |

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| M-H557 | Determination of Nitroimidazoles in Fish and Shellfish |
| M-H567 | Determination of Stilbenes, Amphenicols, Endectocides and Erythromycin in Salmon, Tilapia and other Aquacultured Seafood using LC/MS/MS |
| M-H568 | Determination of Sulfonamides, Fluoroquinolones, Nitroimidazoles, Macrolides and Triphenylmethane Dyes in Salmon, Tilapia and other Aquacultured Seafood using LC/MS/MS |
| M-H595 | Determination and Confirmation of Steroids in Fish and Shellfish by LC/MS/MS |
| M-P069 | Determination of Organochlorine Residues in Egg |

Alcoholic Beverages

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| AOAC 2016.12 | Ethanol in Kombucha |
| M-H609 | Determination and Confirmation of Furan, 2-Methylfuran and 3-Methylfuran in Beer by GC-MS |
| M-P524 | Determination of Ethyl Carbamate in Alcoholic Beverages and Baked Products using GC/MSD or GC/MS/MS |

Water

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| M-C032w | Extractable Metals in Water by ICP-MS |
| M-C560 | Determination of Fluoride in Water |
| M-C561 | Cyanogen Chloride in Water |
| M-C558a | Determination of Bromate in Water Using High Performance Liquid Chromatography-Inductively Coupled Plasma-Mass Spectrometry |
| M-H599 | Determination and Confirmation of Acrylamide in Water by LC/MS/MS |
| M-H600 | Determination and Confirmation of Nitrosodimethylamine (NDMA) in Water by LC/MS/MS |
| M-H601 | Determination and Confirmation of Mutagen X in Water by LC/MS/MS |
| M-H602 | Determination and Confirmation of Haloacetic Acids (HAAs) in Water by LC/MS/MS |
| M-H604 | Determination and Confirmation of Haloacetonitriles in Water by GC-MS/MS |
| M-P532 | Determination and Confirmation of PAHs in Water by GC/MS/MS |

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| M-P534 | Determination and Confirmation of Benzene in Water by Headspace GC/MS |
| M-P536 | Determination and Confirmation of Trihalomethanes (THMs) in Water by Headspace GC/MS |
| M-P537 | Determination and Confirmation of Chloral Hydrate in Water by Headspace GC/MS |
| M-P538 | Determination and Confirmation of 1,4-Dioxane in Water by Headspace GC/MS |
| M-P539 | Determination and Confirmation of Volatile Organic Compounds (VOCs) in Water by Headspace GC/MS |

Foods - Microbiological Tests / Yeast / Mould

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| MFHPB-10 | Isolation of Escherichia coli O157:H7/NM from foods and environmental surface samples [QA-9901-3381] |
| MFHPB-17 (modified) | Enumeration of Coliforms in Foods by the Hydrophobic Grid-Membrane Filter (HGFM) Method [QA-9901-3002] |
| MFHPB-18 | Determination of the Aerobic Colony Count in Foods |
| MFHPB-19 | Enumeration of Coliforms, Faecal coliforms and of E. coli in Foods using the MPN Method |
| MFHPB-19 (modified) | Enumeration of Coliforms, Faecal coliforms and of E. coli in Foods using the MPN Method (modified, 3-tube) |
| MFHPB-20 | Isolation and Identification of Salmonella from Food and Environmental Samples |
| MFHPB-21 | Enumeration of Staphylococcus aureus in Foods |
| MFHPB-22 | Enumeration of Yeast and Moulds (Dry Foods) |
| MFHPB-23 | Enumeration of Clostridium perfringens in Foods [QA-9901-1039] |
| MFHPB-24 | Detection of Salmonella Spp. in Foods by the Vidas SLM™ Method |
| MFHPB-26 (modified) | Enumeration of E.coli in Foods by HGFM Method [QA-9901-3009] |
| MFHPB-29 | Detection of Listeria Spp. in Foods and Environmental Samples by the Vidas Listeria™ Method |
| MFHPB-30 | Isolation of Listeria Monocytogenes and other Listeria species from Foods and Environmental Samples |

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| MFHPB-33 | Enumeration of Total Aerobic Bacteria in Food Products and Food Ingredients using 3MTM Petrifilm™ and Aerobic Count Plates |
| MFHPB-34 | Enumeration of E.coli and Coliforms in Food Products and Food Ingredients Using 3M™ Petrifilm™ E. coli Count Plates |
| MFHPB-35 | Enumeration of Coliforms in Food Products and Food Ingredients using 3M™ Petrifilm™ Coliform Count Plates |
| MFLP-28 | Detection of Listeria monocytogenes in a Variety of Foods and Environmental Surfaces using the Bax®System L. monocytogenes Assay |
| MFLP-29 | Detection of Salmonella in Foods and Environmental Surface Samples using the Bax® System Salmonella Assay |
| MFLP-30 | Detection of Escherichia coli O157:H7 in Select Foods using the Bax® System E.coli O157:H7 MP [QA-9901-3336] |
| MFLP-33 | Detection of Listeria monocytogenes in Foods by the VIDAS LMO2 Method |
| MFLP-42 (modified) | Isolation and enumeration of the Bacillus cereus group in foods [QA-9901-1040] |
| MFLP-49 | Detection of Salmonella spp. In Foods Products by the VIDAS UP Salmonella (SPT) Method. |
| MFLP-54 | Detection of Listeria monocytogenes from selected foods using iQCheck™ Listeria monocytogenes Real-time PCR Test Kit [QA-9901-3765] |
| MFLP-55 (modified) | Enumeration of Faecal Coliform in Foods by HGFM Method [QA-9901-3016] |
| MFLP-56 (modified) | Determination of Aerobic Colony Count in Foods and Environmental Samples by the Hydrophobic Grid-Membrane Filter (HGFM) Method [QA-9901-3001] |
| MFLP-59 | Detection of Listeria spp in food products and environmental surface samples with VIDAS ®UP Listeria (LPT) [QA-9901-3762] |
| MFLP-74 | Enumeration of Listeria monocytogenes in Foods |
| MFLP-76 | The DuPont Qualicon BAX® System real-time method for the detection of E.coli O157:H7 in raw beef trim and raw ground beef. [QA-9901-3749] |
| MFLP-77 | Detection of Listeria monocytogenes and other Listeria spp. in food products and environmental samples by the VIDAS® Listeria species Xpress (LSX) method |

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| MFLP-83 | Detection of Verotoxins VT 1 and VT 2 from Escherichia coli 0157:H7/NM by the Merck Duopath® Verotoxin Kit. [QA-9901-3381] |
| USDA-FSIS MLG 4 (Current Version) | Isolation and Identification of Salmonella from Meat, Poultry, Pasteurized Egg and Siluriformes (Fish) Products and Carcass and Environmental sponges. [QA-9901-3262] |
| USDA- FSIS MLG 4C (Current Version) | 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 [QA-9901-3561] |

Number of Scope Listings: 178

Notes:

ISO/IEC 17025:2017: General Requirements for the Competence of Testing and Calibration Laboratories

P-RE: Agriculture Canada Method

M-: JR Laboratories Inc. Method

HPB: Health Protection Branch

MFHPB: HPB Methods of Microbial Analysis for Food

MFLP: Laboratory Procedures of Microbiological Analysis for Food (HPB)

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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