TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

Accredited Laboratory No. 645

Legal Name of Accredited Laboratory:	**AGAT LABORATOIRES LTÉE**
Contact Name:	Vince Hill
Address:	9770, route Transcanadienne, St-Laurent, QC H4S 1V9
Telephone:	403 736 2065
Fax:	514 333 3046
Website:	www.agatlabs.com
Email:	Vhill@agatlabs.com

SCC File Number:	15806
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:	2009-01-12
Most Recent Accreditation:	2021-12-20
Accreditation Valid to:	2025-01-12

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 separately issued document.

ANIMAL AND PLANTS (AGRICULTURE)

(Chemical Tests):

FC-102-15001F	Determination of ash in food products
FC-102-15002F	Determination of total dietary fibre in food products
FC-102-15003F	Determination of carbohydrates, caloric value, and energy content in food products
FC-102-15005F	Determination of moisture and total solids in food products
FC-102-15006F	Determination of total fat in meat and meat products
FC-102-15007F	Determination of protein / nitrogen in food products
FC-102-15008F	Determination of cholesterol in food products
FC-102-15009F	Determination of total fat content by acid hydrolysis in food products
FC-102-15010F	Determination of total fat content by Mojonnier method in milk and milk products
FC-102-15011F	Determination of fatty acid, saturated and unsaturated, in food products
FC-102-15012F	Determination of metals by inductively coupled plasma optical emission spectroscopy (ICP-OES) in food products. Note : This method is also applicable to MET-101-6107F (see Environmental Section.)
FC-102-15014F	Determination of total fat in chocolate and cocoa products
FC-102-15016F	Determination of salt in food products
FC-102-15024F	Determination of vitamin A content by HPLC with DAD detector
FC-102-15026F	Veratox® quantitative test kit for peanut allergens in food matrices
FC-102-15029F	Determination of sugars (fructose, glucose, galactose, sucrose, maltose, lactose) in food by HPLC-RID
FC-102-15031F	Veratox® quantitative test kit for soya allergens in food matrices
FC-102-15032F	Determination of vitamin E in food by HPLC
FC-102-15033F	Quantitative determination of gliadine R5/gluten in foods (Vertox® gliadin R5 test kit)
FC-102-15036F	Determination of vitamin C content with separation of isoascorbic acid by HPLC DAD
FC-102-15038F	Veratox® quantitative test kits for egg, milk and almonds allergens in food matrices
FC-102-15042F	Determination of Tetracycline, Oxytetracycline, Doxycycline and Chlortetracycline in animal tissue by HPLC
FC-102-15044F	Determination of aflatoxins (B1, B2, G1, G2) in food by HPLC-FLD
FC-102-15045F	Determination of vitamin D3 and D2 in food by LC-MS/MS
FC-102-15046F	Determination of preservatives in food by HPLC-UV
FC-102-15048F	Determination of Ochratoxine A in food by HPLC-FLD
HR-151-5407F	Determination of Dioxins and Furans in food by High Resolution GC/MS
TOX-151-19013F	Screening and quantification of pesticides in food by QuEChERS®
TOX-151-19014F	Determination of Phenylbutazone and its active metabolite, Oxyphenbutazone in horse by LC-MS/MS

(Microbiological Tests):

MFHPB-10	Isolation of *Escherichia coli* O157:H7/NM from foods and environmental surface samples
MFHPB-18	Determination of the Aerobic Colony Count in Foods
MFHPB-19	Enumeration of Coliforms, Faecal Coliforms and of *E. coli* in Foods
MFHPB-20	Methods for the Isolation and Identification of *Salmonella* from Foods and Environmental Samples
MFHPB-21	Enumeration of *Staphylococcus aureus* in Foods
MFHPB-22	Enumeration of yeasts and moulds in foods
MFHPB-23	Enumeration of *Clostridium perfringens* in Foods
MFHPB-30	Isolation of *Listeria monocytogenes* from All Foods and Environmental Samples
MFHPB-31	Determination of Coliforms in Foods Using Violet Red Bile Agar
MFHPB-32	Enumeration of Yeast and Mold in Food Products and Food Ingredients Using 3M™ Petrifilm™ Yeast and Mold Count Plates
MFHPB-33	Enumeration of Total Aerobic Bacteria in Food Products and Food Ingredients Using 3M™ Petrifilm™ Aerobic Count Plates
MFHPB-34	Enumeration of *E. coli* and Coliforms in Food Products and Food Ingredients Using 3M™ Petrifilm™ E. coli Plates
MFLP-05	Detection of *Listeria* spp. from environmental surfaces using the 3M™ Molecular Detection System Test Kit
MFLP-06	Detection of *Salmonella* spp. in Foods using the 3M™ Molecular Detection System Test Kit
MFLP-09	Enumeration of *Enterobacteriaceae* Species in Food and Environmental Samples Using 3M™ Petrifilm™ *Enterobacteriaceae* Count Plates
MFLP-15	The Detection of *Listeria* Species from Environmental Surfaces Using the Dupont Qualicon BAX® System Method and Direct Plating
MFLP-21	Enumeration of *Staphylococcus Aureus* in Foods and Environmental Samples Using 3M™ Petrifilm™ Staph Express Count (STX) Plates
MFLP-25	Isolation and Identification of *Shigella* spp. from Foods
MFLP-28	The Qualicon Bax® System Method for the Detection of *Listeria Monocytogenes* in a Variety of Food
MFLP-29	The Qualicon Bax® System Method for the Detection of *Salmonella* in a Variety of Food and Environmental Samples
MFLP-30	Detection of *Escherichia coli* O157:H7 in Select Foods using the BAX® System *E. coli* O157:H7 MP
MFLP-42	Isolation and Enumeration of *Bacillus cereus* in Foods
MFLP-43	Determination of *Enterobacteriaceae*
MFLP-46	Isolation of Thermophilic *Campylobacter* from Food
MFLP-49	Detection of *Salmonella* spp. in food products and environmental surfaces by the VIDAS® UP Salmonella (SPT) method
MFLP-54	Detection of *Listeria monocytogenes* from selected foods using iQ-Check™ Listeria monocytogenes Real-Time PCR Test Kit

MFLP-58B	Enumeration of *Aeromonas hydrophila* in Ice and Water by the Hydrophobic Grid-Membrane Filter (HGMF) Technique
MFLP-59	Detection of *Listeria* spp. in food products and environmental surface samples with VIDAS® UP Listeria (LPT)
MFLP-61	Enumeration of *Pseudomonas aeruginosa* in Foods and Food Ingredients by the Hydrophobic Grid-Membrane Filter (HGMF) Method
MFLP-72	Detection of *Listeria monocytogenes* in foods using the 3M™ Molecular Detection System Test Kit
MFLP-73	Detection of *Escherichia coli* O157 in foods using the 3M™ Molecular Detection System Test Kit
MFLP-74	Enumeration of *Listeria monocytogenes* in Food
MFLP-77	Detection of *Listeria monocytogenes* and other *Listeria* spp. in food products and environmental samples by the VIDAS® Listeria species Xpress (LSX) method
MFLP-100	Detection of *Salmonella* spp. in Foods Using the 3M™ Molecular Detection System Test Kit Version 2
MFLP-101	Detection of *Listeria* spp. in Environmental Surface Samples Using the 3M™ Molecular Detection System Test Kit Version 2
MFLP-111	Detection of *Listeria monocytogenes* in Foods Using the 3M™ Molecular Detection System Test Kit Version 2
MIC-102-7076F	Enumeration of lactic acid bacteria by 3M™ Petrifilm
USDA MLG 4	Isolation and Identification of *Salmonella* from Meat, Poultry and Egg Products
USDA MLG 41	Isolation, Identification and Enumeration of *Campylobacter jejuni/coli/lari* from Poultry Rinse, Sponge and Raw Product Samples
USDA MLG 4C	FSIS Procedure for the Use of a Polymerase Chain Reaction (PCR) Assay for Screening *Salmonella* in Raw Meat, Carcass Sponge Samples, Whole Bird Rinses, Ready-to-Eat Meat and Poultry Products and Pasteurized Egg Products

ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY

Environmental:

HR-151-5400F	Determination of Dioxins and Furans in water, soil, tissue, air and leachates by GC/MS (Reference methods: Environment Canada EPS1/RM/19, US EPA 1613, CEAEQ MA 400-D. F. 1.0, US EPA 23, US EPA TO-9A) Water, soil, air, and tissue are measured by HR-GC/MS. Water and soil are measured by APGC. 2,3,7,8-TCDD — 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD — 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD — 1,2,3,4,6,7,8-HpCDD OCDD — 2,3,7,8-TCDF 1,2,3,7,8-PeCDF — 2,3,4,7,8-PeCDF

	1,2,3,4,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF OCDF Total PeCDD Total HpCDD Total TCDF Total HxCDF Total PCDF	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8,9-HpCDF Total TCDD Total HxCDD Total PCDD Total PeCDF Total HpCDF
HR-151-5401F	Determination of PCB congeners by High Resolution GC/MS	
HR-151-5403F	Determination of polycyclic aromatic hydrocarbons (PAH) by High Resolution GC/MS	
HR-151-5405F	Determination of polybrominated diphenyl ethers (PBDE) in waters soils and tissues by High Resolution GC/MS	
HR-151-5406F	Determination of organochlorine pesticides (OCP) in water by High Resolution GC/MS Trifluralin Hexachlorobenzene Gamma-BHC (Lindane) Heptachlor cis-Heptachlor epoxide Trans-chlordane Endosulfan I Trans-Nonachlor p,p-DDE Endrin cis-Nonachlor o,p-DDT Endosulfan sulfate Endrin Ketone Mirex	 Alpha-BHC Beta-BHC Delta-BHC Aldrin Oxychlordane o,p-DDE cis-chlordane Dieldrin o,p-DDD Endosulfan II p,p-DDD Endrin Aldehyde p,p-DDT p,p-Methoxychlor
INOR-101-6000F	Determination of alkalinity, soluble carbonates and bicarbonates in water by PC titrate	
INOR-101-6004F	Determination of anions by ion chromatography	
INOR-101-6006F	Determination biological oxygen demand (BOD in 5 days)	
INOR-101-6016F	Determination of conductivity in water	
INOR-101-6021F	Determination of pH of soils and waters by PC titrate	
INOR-101-6028F	Gravimetric determination of total suspended solids and volatile suspended solids in water (TSS, VSS)	
INOR-101-6036F	Determination of oxidizable cyanide by Technicon in soil and water samples.	
INOR-101-6042F	Determination of chemical oxygen demand (COD)	
INOR-101-6044F	Determination of turbidity in water by turbidity metre	
INOR-101-6048F	Determination of total Kjeldahl nitrogen and total phosphorous in water and soil	

	samples
INOR-101-6051F	Determination of ammonia nitrogen in waters and soils by discrete analyzer Seal AQ2
INOR-101-6056F	Determination of Carbon and sulfur in soil by infrared spectrophotometer
INOR-101-6061F	Determination of total cyanide in soil and total and free cyanide in water by Astoria.
INOR-101-6062F	Determination of total phenols in waters in lixiviates by Astoria
INOR-101-6068F	Determination of particles in air samples
MET-101-6102F	Determination of mercury by cold vapour atomic absorption spectroscopy
MET-101-6105F	Determination of metals in water and soil by ICP-MS
MET-101-6107F	Determination of metals in water and soil by ICP-OES
ORG-100-5101F	Determination of volatile organic compounds in soil and water samples by GC/MS (purge & trap / headspace)
ORG-100-5102F	Determination of polycyclic aromatic hydrocarbons in water and soil by GC/MS
ORG-100-5103F	Determination of phenols in soil by GC/MS
ORG-100-5106F	Determination organochlorine pesticides in waters by GC/MS
ORG-100-5107F	Determination of PCB Congeners in water and soil
ORG-100-5108F	Determination of PCB Aroclors® in water, soil, sediments and oil samples by GC-ECD
ORG-100-5109F	Determination of Chlorobenzenes in water and soil samples by mass spectrometry
ORG-100-5112F	Determination of resin and fatty acids in water by GC/MS
ORG-100-5113F	Determination of phenols in water by derivation with acetic anhydride and GC/MS analysis
ORG-100-5115F	Determination of Glyphosate in water by HPLC
ORG-100-5121F	Determination of organophosphorus pesticides by GC/MS
ORG-100-5123F	Determination of glycols in water and soil samples by CC/FID
ORG-100-5125F	Determination of Haloacetic acids in water by GC/MS
ORG-100-5126F	Determination of aldehydes in water and soil samples by GC/MS
TOX-151-19000F	Determination of perchlorate by UPLC-MS
TOX-151-19002F	Determination of nitroaromatics, nitramines, and nitrate esters by UPLC-MSMS/UV (Reference method US EPA 8330B) TNT HMX RDX 1,3,5-TNB 1,3-DNB Tetryl NB 4-Am-DNT 2-Am-DNT 2,4-DNT 2,6-DNT 2-NT 3-NT 4-NT TNG PETN 3,5-DNA
TOX-151-19003F	Determination of nonylphenols and nonylphenols polyethoxylates by UPLC-

	MS/MS (Reference method: ASTM D7485, ASTM D7742) p-n-Nonylphenol Nonylphenol technical grade Bisphenol A (BPA) Nonylphenol monoethoxylate (NP_1EO) Nonylphenol diethoxylate (NP_2EO) Nonylphenol triethoxylate (NP_3EO) Nonylphenol tetraethoxylate (NP_4EO) Nonylphenol pentaethoxylate (NP_5EO) Nonylphenol hexaethoxylate (NP_6EO) Nonylphenol heptaethoxylate (NP_7EO) Nonylphenol octaethoxylate (NP_8EO) Nonylphenol nonaethoxylate (NP_9EO) Nonylphenol decaethoxylate ($NP_{10}EO$) Nonylphenol undecaethoxylate ($NP_{11}EO$) Nonylphenol dodecaethoxylate ($NP_{12}EO$) Nonylphenol tridecaethoxylate ($NP_{13}EO$) Nonylphenol tetradecaethoxylate ($NP_{14}EO$) Nonylphenol pentadecaethoxylate ($NP_{15}EO$) Nonylphenol hexadecaethoxylate ($NP_{16}EO$) Nonylphenol heptadecaethoxylate ($NP_{17}EO$)
TOX-151-19005F	Determination of polycyclic aromatic hydrocarbons (PAH) in air by GC/MS
TOX-151-19009F	Determination of hydrazine in waters by UPLC-UV-MS
TOX-151-19012F	Determination of perfluorinated alkyl substances (PFAS) by SPE LC-MS/MS in water, soil and tissue (Reference methods: EPA 533, 537, ISO 25101) For water and soil: Perfluorobutanoic acid (PFBA) Perfluoropentanoic acid (PFPeA) Perfluorohexanoic acid (PFHxA) Perfluoroheptanoic acid (PFHpA) Perfluorooctanoic acid (PFOA) Perfluorononanoic acid(PFNA) Perfluorodecanoic acid (PFDA) Perfluoroundecanoic acid (PFUnDA) Perfluorododecanoic acid (PFDoA) Perfluorotridecanoic acid (PFTrDA) Perfluorotetradecanoic acid (PFTeDA) Perfluorobutane sulfonic acid (PFBS) Perfluorohexane sulfonic acid (PFHxS) Perfluoroheptane sulfonic acid (PFHpS) Perfluorooctane sulfonic acid (PFOS) Perfluorodecane sulfonic acid (PFDS)

	Perfluorooctane sulfonamide (PFOSA) N-Methylperfluorosulfamidoacetic acid (N-MeFOSAA) N-Ethylperfluorosulfamidoacetic acid (N-EtFOSAA) 2H-Perfluorooctanoic Acid (6:2-FTUCA) 2H-Perfluorodecanoic Acid (8:2-FTUCA) 2H-Perfluorododecanoic Acid (10:2-FTUCA) 4:2 Fluorotelomersulfonate (4:2-FTS) 6:2 Fluorotelomersulfonate (6:2-FTS) 8:2 Fluorotelomersulfonate (8:2-FTS) 10:2 Fluorotelomersulfonate (10:2-FTS) N-Methylperfluorooctanesulfonamide (N-MeFOSA) N-Ethyleperfluorooctanesulfonamide (N-EtFOSA) Sodium Dodecafluoro-3H-4,8-dioxanonanoate (aDONA) Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA) 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonate (PF3ONS) 11-Chloroeicosafluoro-3-oxaundeca-1-sulfonate (PF3OUdS) N-methyl perfluorooctanesulfonamidoethanol (N-MeFOSE) N-ethyl perfluorooctanesulfonamidoethanol (N-EtFOSE) Perfluorobutane sulfonamide (FBSA) Perfluorohexanesulfonamide (FHxSA) Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) Perfluorododecanesulfonic acid (PFDoS) Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA) Perfluoro-4-methoxybutanoic acid (PFMBA) Perfluoro-3-methoxypropanoic acid (PFMPA) Perfluorononanesulfonic acid (PFNS) Perfluoropentansulfonic acid (PFPeS) For tissue samples: Perfluorobutanoic acid (PFBA) Perfluoropentanoic acid (PFPeA) Perfluorohexanoic acid (PFHxA) Perfluoroheptanoic acid (PFHpA) Perfluorooctanoic acid (PFOA) Perfluorononanoic acid(PFNA) Perfluorodecanoic acid (PFDA) Perfluoroundecanoic acid (PFUnDA) Perfluorododecanoic acid (PFDoA) Perfluorotridecanoic acid (PFTrDA) Perfluorotetradecanoic acid (PFTeDA) Perfluorobutane sulfonic acid (PFBS) Perfluorohexane sulfonic acid (PFHxS) Perfluoroheptane sulfonic acid (PFHpS) Perfluorooctane sulfonic acid (PFOS)

	Perfluorodecane sulfonic acid (PFDS) Perfluorooctane sulfonamide (PFOSA) N-Methylperfluorosulfamidoacetic acid (N-MeFOSAA) N-Ethylperfluorosulfamidoacetic acid (N-EtFOSAA) 2H-Perfluorooctanoic Acid (6:2-FTUCA) 2H-Perfluorodecanoic Acid (8:2-FTUCA) 2H-Perfluorododecanoic Acid (10:2-FTUCA) 4:2 Fluorotelomersulfonate (4:2-FTS) 6:2 Fluorotelomersulfonate (6:2-FTS) 8:2 Fluorotelomersulfonate (8:2-FTS) 10:2 Fluorotelomersulfonate (10:2-FTS) N-Methylperfluorooctanesulfonamide (N-MeFOSA) N-Ethyleperfluorooctanesulfonamide (N-EtFOSA) Sodium Dodecafluoro-3H-4,8-dioxanonanoate (aDONA) Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA) 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonate (PF3ONS) 11-Chloroeicosafluoro-3-oxaundeca-1-sulfonate (PF3OUdS)

Water (Toxicology)

ECO-152-20000F	Acute toxicity test on rainbow trout (*Oncorhynchus mykiss*) EPS 1/RM/9 (variety of test materials), EPS1/RM/13 (effluents) & EPS1/RM/50 (pH stabilization)
ECO-152-20004F	Determination of acute lethality *Daphnia magna* EPS 1/RM/11, EPS 1/RM/14 and MA. 500 - D.Mag
ECO-152-20017F	Acute toxicity test on fathead minnow (*Pimephales Promelas*) based on EPA-821-R-02-012
ECO-152-20019F	Determination of growth inhibition using fresh water algae (*Pseudokirchneriella subcapitata*) based on EPS 1/RM/25
ECO-152-20021F	Determination of growth inhibition in algea (*Pseudokirchneriella subcapitata*) based on MA. 500-P.sub 1.0
ECO-152-20022F	Test of Larval Growth and Survival (chronic test) Using Fathead Minnows (*Pimephales promelas*) based on EPS 1 / RM / 22
ECO-152-20023F	Determination of toxicity using luminescent bacteria (Microtox) based on EPS 1 /RM / 24
ECO-152-20027F	Test of Reproduction and Survival Using the Cladoceran *Ceriodaphnia dubia* EPS 1/RM/21
ECO-152-20029F	Test for Measuring the Inhibition of Growth using the Freshwater Macrophyte, *Lemna minor* EPS 1 /RM/37

Number of Scope Listings: 121

Notes:

ASTM: ASTM International, formerly American Society for Testing and Materials

US-EPA: United States Environmental Protection Agency

USDA: United States Department of Agriculture

MFHPB: Method Food Health Protection Branch-HPB Methods for the Microbiological Analysis of Foods, Health Canada

MFLP: Microbiology Food Laboratory Procedure-Laboratory Procedures for the Microbiological Analysis of Foods, Health Canada

MLG: United States Department of Agriculture Food Safety And Inspection Service, Office of Public Health Science

FC: Internal Laboratory Method (Food Chemistry)

HR: Internal Laboratory Method (Environmental)

INOR: Internal Laboratory Method (Inorganic)

ORG: Internal Laboratory Method (Organic)

MET: Internal Laboratory Method (Metals)

TOX: Internal Laboratory Method (Toxicology)

ECO: Internal Laboratory Method (Ecotoxicology)

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
Published on: 2022-03-31