



CALA

Canadian Association for
Laboratory Accreditation Inc.

CALA Directory of Laboratories

Membership Number: 1442
Laboratory Name: ALS Environmental (Winnipeg)
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Standard: Conforms with requirements of ISO/IEC 17025:2017
Clients Served: All Interested Parties
Revised On: March 18, 2021
Valid To: September 16, 2023

Scope of Accreditation

Air (Inorganic)

Asbestos - Air (175)
WP-TM-1702; NIOSH 7400
PHASE CONTRAST MICROSCOPY (PCM)/FIBRE ANALYSIS
Asbestos

Air (Inorganic)

Radon - Air (142)
WP-TM-1801; modified from EPA 402-R-92-004
ELECTRET ION CHAMBER
Radon

Air (Mycology)

Mould - Air (055)
WP-TM-1703; modified from INTRODUCTION TO FOOD-BOURNE FUNGI
MICROSCOPY - CULTURE
Biocontaminant Identification
Biocontaminant Quantitation

Air (Mycology)

Mould - Air (163)
WP-TM-1704; modified from ASTM D7391
MICROSCOPY
Biocontaminant Identification
Biocontaminant Quantification

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Food (Inorganic)

pH - Food (188)
WP-TM-1223; MFHPB-03
pH METER
pH

Food (Microbiology)

Coliforms - Food [Butter, Cheese, Dairy, Dairy Products (Except Unpasteurized Milk for Payment Purposes), Edible Meat Offal, Egg, Milk Powder] (153)
WP-TM-1210; MFHPB-19
MOST PROBABLE NUMBER (MPN)
Escherichia coli (E. coli)
Fecal (Thermotolerant) Coliforms
Total Coliforms

Food (Microbiology)

Coliforms - Food [Environmental Surface, Food Product] (200)
WP-TM-1228; MFHPB-34
PLATING (PETRIFILM)
Escherichia coli (E. coli)
Total Coliforms

Food (Microbiology)

Heterotrophic Plate Count (HPC) - Food [Butter, Cheese, Dairy, Dairy Products (Except Unpasteurized Milk for Payment Purposes), Edible Meat Offal, Egg, Environmental Surface, Milk Powder] (152)
WP-TM-1208; MFHPB-18
POUR PLATE
Heterotrophic Plate Count (HPC)

Food (Microbiology)

Listeria - Food [Bread, Cacao, Environmental Surface, Meat] (189)
WP-TM-1224; MFLP-28
POLYMERASE CHAIN REACTION (PCR)
Listeria

Food (Microbiology)

Listeria - Food [Butter, Cheese, Dairy, Dairy Products (Except Unpasteurized Milk for Payment Purposes), Edible Meat Offal, Egg, Milk Powder] (151)
WP-TM-1202; AOAC 997.03
VISUAL IMMUNOPRECIPITATE ASSAY (VIP)
Listeria monocytogenes

Food (Microbiology)

Listeria - Food [Butter, Cheese, Dairy, Dairy Products (Except Unpasteurized Milk for Payment Purposes), Edible Meat Offal, Egg, Environmental Surface, Milk Powder] (156)
WP-TM-1201; MFHPB-30
PRESENCE/ABSENCE
Listeria monocytogenes

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Food (Microbiology)

Listeria - Food [Butter, Cheese, Dairy, Dairy Products (Except Unpasteurized Milk for Payment Purposes), Edible Meat Offal, Egg, Milk Powder] (158)

WP-TM-1203; MFLP-34

VISUAL IMMUNOPRECIPITATE ASSAY (VIP)

Listeria monocytogenes

Food (Microbiology)

Salmonella - Food [Butter, Cheese, Dairy, Dairy Products (Except Unpasteurized Milk for Payment Purposes), Edible Meat Offal, Egg, Environmental Surface, Milk Powder] (154)

WP-TM-1204; MFHPB-20

SPREAD PLATE

Salmonella

Food (Microbiology)

Salmonella - Food [Chocolate, Dairy, Environmental Surface, Poultry] (179)

WP-TM-1222; MFLP-29

POLYMERASE CHAIN REACTION (PCR)

Salmonella

Food (Microbiology)

Salmonella - Food [Egg, Egg Product, Meat, Poultry] (160)

WP-TM-1206; USDA MLG 4

SPREAD PLATE

Salmonella

Food (Microbiology)

Staphylococcus aureus - Food [Butter, Cheese, Dairy, Dairy Products (Except Unpasteurized Milk for Payment Purposes), Edible Meat Offal, Egg, Milk Powder] (155)

WP-TM-1207; MFHPB-21

SPREAD PLATE

Staphylococcus aureus (S. aureus)

Food (Microbiology)

Yeast and Mould - Food (168)

WP-TM-1211; MFHPB-22

POUR PLATE

Mould

Yeast

Solids (Biology)

Benthic Organisms - Solids [Sediment] (075)

WP-TM-1301; modified from SM 10500

MICROSCOPY

Benthos Enumeration

Benthos Identification

Solids (Inorganic)

Asbestos - Solids [Bulk] (176)

WP-TM-1701; NIOSH 9002

POLARIZED LIGHT MICROSCOPY (PLM)

Bulk Asbestos

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Solids (Inorganic)

Moisture - Solids [Soil] (170)

NA-TM-1200; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GRAVIMETRIC

Percent Moisture

Solids (Mycology)

Mould - Solids [Bulk, Swab] (178)

WP-TM-1703; INTRODUCTION TO FOOD-BOURNE FUNGI, 5TH ED
MICROSCOPY - CULTURE

Mould

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (148)

NA-TM-1100, NA-TP-2100; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1
METHOD

GC/FID

F2: C10-C16

F3: C16-C34

F4: C34-C50

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (150)

NA-TM-1100, NA-TP-2100; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1
METHOD

GRAVIMETRIC - TUMBLER EXTRACTION

F4: Gravimetric

Solids (Organic)

Volatile Fatty Acids - Solids [Soil] (129)

WP-TM-1105; modified from ASTM D2908-91

GC/MS - WATER EXTRACTION

Acetic acid

Butyric acid

Caproic Acid (Hexanoic Acid)

Formic acid

Isobutyric acid

Isovaleric acid

Propionic acid

Valeric acid

Solids (Organic)

Volatile Organic Compounds (VOC) - Solids [Soil] (141)

NA-TM-1102, NA-TP-2102; modified from EPA 5021A and EPA 8260C

GC/MS-HEADSPACE - METHANOL EXTRACTION

1,1-Dichloroethane

1,1-Dichloroethylene

1,1-Dichloropropene

1,1,1-Trichloroethane

1,1,1,2-Tetrachloroethane

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1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
1,2-Dibromo-3-chloropropane (DBCP)
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,2,3-Trichlorobenzene
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
2-Chlorotoluene
2-Hexanone (Methyl butyl ketone, MBK)
2,2-Dichloropropane
4-Chlorotoluene (p-Chlorotoluene)
4-isopropyltoluene (p-Cymene)
Acetone (2-Propanone)
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane (Ethyl Chloride)
Chloroethene (Vinyl chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dibromomethane
Dichlorodifluoromethane
Dichloromethane
Ethylbenzene
Ethylene Dibromide

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Hexachlorobutadiene
Hexane
Isopropylbenzene (Cumene)
m,p-Xylene
Methyl ethyl ketone
Methyl isobutyl ketone (MIBK)
Methyl t-butyl ether
n-Butylbenzene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane

Solids (Organic)

Volatile Petroleum Hydrocarbons (VPH) - Solids [Soil] (140)
NA-TM-1102, NA-TP-2102; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
(PERFORMANCE BASED MODIFICATION)
GC/FID-HEADSPACE - METHANOL EXTRACTION
F1: C6-C10

Tissue (Inorganic)

Total Mercury - Tissue (198)
NA-TM-1005, NA-TP-2006, NA-TP-2012; modified from EPA 1631E and EPA 200.3
COLD VAPOUR ATOMIC ABSORPTION (CVAA)
Mercury

Tissue (Organic)

Chlorophyll - Tissue (171)
WP-TM-1022; modified from EPA 445.0
FLUOROMETRIC - EXTRACTION
Chlorophyll a

Water (Biology)

Phytoplankton and Zooplankton - Water (076)
WP-TM-1302; modified from SM 10200
MICROSCOPY
Phytoplankton Enumeration
Phytoplankton identification
Zooplankton Enumeration
Zooplankton Identification

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Water (Inorganic)

Alkalinity - Water (001)

WP-TM-1028; modified from SM 2320 B

TITRIMETRIC

Alkalinity (pH 4.5)

Water (Inorganic)

Ammonia - Water (135)

WP-TM-1011, WP-WI-3005; modified from SM 4500-NH3 F

COLORIMETRIC

Ammonia

Water (Inorganic)

Anions - Water (134)

NA-TM-1001; modified from EPA 300.1

ION CHROMATOGRAPHY (IC)

Bromide

Chloride

Fluoride

Nitrate

Nitrite

Sulfate

Water (Inorganic)

Biochemical Oxygen Demand (BOD) - Water (015)

WP-TM-1015; modified from SM 5210 B

DISSOLVED OXYGEN METER (DO)

BOD (5 day)

CBOD (5 day)

Water (Inorganic)

Carbon - Water (038)

WP-TM-1029; modified from SM 5310 B

INFRARED SPECTROSCOPY (IR)

Inorganic Carbon

Organic Carbon

Total Carbon (calculation)

Water (Inorganic)

Chemical Oxygen Demand (COD) - Water (060)

WP-TM-1017; modified from HACH and SM 5220 D

COLORIMETRIC - DIGESTION

COD

Water (Inorganic)

Chlorine - Water (147)

WP-TM-1013; modified from SM 4500-CL G

COLORIMETRIC

Free Chlorine

Total Chlorine

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Water (Inorganic)

Colour - Water (136)

WP-TM-1010, WP-WI-3005; modified from SM 2120 C

COLORIMETRIC

True Colour

Water (Inorganic)

Conductivity - Water (003)

WP-TM-1028; modified from SM 2510 B

CONDUCTIVITY METER

Conductivity (25°C)

Water (Inorganic)

Dissolved Metals - Water (056)

NA-TM-1002, NA-TP-2002, NA-TP-2007; modified from EPA 200.2 and EPA 6020B

ICP/MS

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Cesium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

Potassium

Rubidium

Selenium

Silicon

Silver

Sodium

Strontium

Sulphur (Sulfur)

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Tellurium
Thallium
Thorium
Tin
Titanium
Tungsten
Uranium
Vanadium
Zinc
Zirconium

Water (Inorganic)

Dissolved Oxygen - Water (088)
WP-TM-1018; modified from SM 4500-O C
IODOMETRIC TITRATION/AZIDE MODIFICATION
Dissolved Oxygen (DO)

Water (Inorganic)

Mercury - Water (196)
NA-TM-1005, NA-TP-2002, NA-TP-2012; modified from EPA 1631E and EPA 200.2 and SM 3030 B
COLD VAPOUR ATOMIC ABSORPTION (CVAA) - DIGESTION
Mercury

Water (Inorganic)

Oil and Grease - Water (169)
NA-TM-1107; BC MOE LABORATORY MANUAL SECTION D
GRAVIMETRIC - EXTRACTION
Mineral Oil and Grease
Total Oil and Grease

Water (Inorganic)

pH - Water (019)
WP-TM-1028; modified from SM 4500-H+
pH METER
pH

Water (Inorganic)

Phosphorus - Water (164)
WP-TM-1016; modified from SM 4500-P A and SM 4500-P B and SM 4500-P E
COLORIMETRIC
Dissolved Phosphate
Phosphate

Water (Inorganic)

Phosphorus - Water (165)
WP-TM-1016; modified from SM 4500-P A and SM 4500-P B and SM 4500-P E
COLORIMETRIC - DIGESTION
Total Dissolved Phosphorus
Total Inorganic Phosphorus
Total Phosphorus

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Water (Inorganic)

Silica - Water (137)

WP-TM-1012, WP-WI-3005; modified from SM 4500-SIO2

COLORIMETRIC

Reactive Silica

Water (Inorganic)

Solids - Water (014)

NA-TM-1004, NA-TM-1008, WP-TM-1014; modified from SM 2540 B and SM 2540 C and SM 2540 D

GRAVIMETRIC

Total Dissolved Solids

Total Solids (TS)

Total Suspended Solids

Volatile Suspended Solids

Water (Inorganic)

Total Kjeldahl Nitrogen (TKN) - Water (173)

NA-TM-1006, WP-TM-1030; modified from SM 4500-NORG D

COLORIMETRIC

Total Kjeldahl Nitrogen

Water (Inorganic)

Total Metals - Water (180)

NA-TM-1002, NA-TP-2001, NA-TP-2007; EPA 200.2 and EPA 6020B

ICP/MS - DIGESTION

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Cesium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

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Potassium
Rubidium
Selenium
Silicon
Silver
Sodium
Strontium
Sulphur (Sulfur)
Tellurium
Thallium
Thorium
Tin
Tin
Titanium
Tungsten
Uranium
Uranium
Vanadium
Zinc
Zirconium

Water (Inorganic)

Turbidity - Water (068)
NA-TM-1007; modified from SM 2130 B
TURBIDIMETRIC
Turbidity

Water (Inorganic)

UV Absorbance and Transmittance - Water (166)
WP-TM-1027; modified from SM 5910 B
SPECTROPHOTOMETRIC
UV Absorbance
UV Transmittance

Water (Microbiology)

Coliforms - Water (039)
NA-TM-1300; modified from IDEXX and SM 9223 B
QUANTI-TRAY (COLILERT)
Escherichia coli
Total Coliforms

Water (Microbiology)

Coliforms - Water (172)
WP-TM-1221; modified from ON MOECC E3407
MEMBRANE FILTRATION (DC)
Escherichia coli
Total Coliforms

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Water (Microbiology)

Cryptosporidium and Giardia - Water (053)

WP-TM-1212; modified from EPA 1623

IMMUNOMAGNETIC SEPARATION/IMMUNOFLUORESCENCE ASSAY (IMS/FA) -

Cryptosporidium Enumeration

Giardia Enumeration

Water (Microbiology)

Fecal (Thermotolerant) Coliforms - Water (025)

WP-TM-1218; modified from SM 9222 D

MEMBRANE FILTRATION (M-FC)

Fecal (Thermotolerant) Coliforms

Water (Microbiology)

Fecal (Thermotolerant) Coliforms - Water (167)

NA-TM-1300; modified from SM 9223 B

QUANTI-TRAY (COLILERT)

Fecal (Thermotolerant) Coliforms

Water (Microbiology)

Fecal Streptococci - Water (199)

WP-TM-1231; modified from SM 9230 C

MEMBRANE FILTRATION

Fecal streptococci

Water (Microbiology)

Heterotrophic Plate Count (HPC) - Water (041)

NA-TM-1301; modified from SM 9215 B

POUR PLATE

Heterotrophic Plate Count (HPC)

Water (Microbiology)

Legionella - Water (118)

WP-TM-1213; modified from ISO 11731 and SM 9260 J

MEMBRANE FILTRATION

Legionella-enumeration

Water (Microbiology)

Microcystins - Water (090)

WP-TM-1104; ENVIROLOGIX MANUAL and TOXICON MANUAL

ENZYME-LINKED IMMUNOSORBENT ASSAY (ELISA)

Microcystins

Water (Microbiology)

Pseudomonas aeruginosa - Water (093)

WP-TM-1215; modified from SM 9213 E

MEMBRANE FILTRATION (mPAC)

Pseudomonas aeruginosa

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Water (Microbiology)

Total Coliforms - Water (078)
WP-TM-1218; modified from SM 9222 B
MEMBRANE FILTRATION (M-ENDO)
Total Coliforms

Water (Microbiology)

Total Coliforms and Escherichia coli (E.coli) - Water (203)
WP-TM-1234; modified from ISO 9308-1
MEMBRANE FILTRATION (CHROMOCULT)
Escherichia coli
Total Coliforms

Water (Organic)

Chlorophyll A - Water (144)
WP-TM-1022; EPA 445.0
FLUOROMETRIC
Chlorophyll

Water (Organic)

Petroleum Hydrocarbons (PHC) - Water (132)
NA-TM-1112, NA-TP-2100; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1
METHOD and EPA 3511
GC/FID - EXTRACTION
F2: C10-C16
F3: C16-C34
F4: C34-C50

Water (Organic)

Volatile Fatty Acids - Water (130)
WP-TM-1105; modified from ASTM D2908-91
GC/MS
Acetic acid
Butyric acid
Caproic Acid (Hexanoic Acid)
Formic acid
Isobutyric acid
Isovaleric acid
Propionic acid
Valeric acid

Water (Organic)

Volatile Organic Compounds (VOC) - Water (139)
NA-TM-1102; modified from EPA 5021A and EPA 8260C
GC/MS-HEADSPACE
1,1-Dichloroethane
1,1-Dichloroethylene
1,1-Dichloropropene
1,1,1-Trichloroethane

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1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
1,2-Dibromo-3-chloropropane (DBCP)
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,2,3-Trichlorobenzene
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
2-Chlorotoluene
2-Hexanone (Methyl butyl ketone, MBK)
2,2-Dichloropropane
4-Chlorotoluene (p-Chlorotoluene)
4-isopropyltoluene (p-Cymene)
Acetone (2-Propanone)
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromodichloromethane - Formation Potential
Bromoform
Bromoform - Formation Potential
Bromomethane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chlorodibromomethane - Formation Potential
Chloroethane (Ethyl Chloride)
Chloroform
Chloroform - Formation Potential
Chloromethane (Methyl chloride)
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dibromomethane

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Dichlorodifluoromethane
Dichloromethane
Ethylbenzene
Ethylene Dibromide
Hexachlorobutadiene
Hexane
Isopropylbenzene (Cumene)
m,p-Xylene
Methyl ethyl ketone
Methyl isobutyl ketone (MIBK)
Methyl t-butyl ether
n-Butylbenzene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl chloride

Water (Organic)

Volatile Petroleum Hydrocarbons (VPH) - Water (138)
NA-TM-1102; modified from EPA 5021A and EPA 8015D
GC/FID-HEADSPACE
F1: C6-C10

Water (Toxicology)

Daphnia magna - Water [Wastewater] (017)
WP-TM-1401; EPS 1/RM/11 and EPS 1/RM/14
ACUTE LETHALITY (SURVIVAL)
Daphnia LC50 (48 h)
Daphnia Single Concentration (48h)

Water (Toxicology)

Microtox - Water [Wastewater] (050)
WP-TM-1403; EPS 1/RM/24
BIOLUMINESCENCE
Microtox (30min.)
Microtox (5min.)
Microtox IC50 (15 min)

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Water (Toxicology)

Rainbow Trout - Water [Wastewater] (049)

WP-TM-1402; EPS 1/RM/13 and EPS 1/RM/9

ACUTE LETHALITY (SURVIVAL)

Single Concentration (96h)

Trout LC50 (96 h)

Water (Toxicology)

Rainbow Trout [pH Stabilization] - Water [Wastewater] (161)

WP-TM-1402; EPS 1/RM/13 and EPS 1/RM/50

ACUTE LETHALITY (SURVIVAL)

Single Concentration (96h) - pH Stabilization

Trout LC50 (96h) - pH Stabilization

† "OSDWA" indicates the appendix is used for the analysis of Ontario drinking water samples, which is subject to the rules and related regulations under the Ontario "Safe Drinking Water Act" (2002).

The list of tests and measurement capabilities for which a laboratory is accredited can change at any time due to circumstances such as scope extensions, voluntary withdrawal of tests by the laboratory and suspension. Scopes are published by the CALA via the Internet at http://www.cala.ca/cala_directories.html