



CALA

Canadian Association for
Laboratory Accreditation Inc.

CALA Directory of Laboratories

Membership Number: 4132
Laboratory Name: Paracel Laboratories Ltd. Hamilton
Parent Institution: Paracel Laboratories Ltd.
Address: 351 Nash Rd.N Unit 9B Hamilton ON L8H 7P4
Contact: Mr. Alex Enfield
Phone: (905) 631-2077
Fax:
Email: aenfield@paracellabs.com

Standard: Conforms with requirements of ISO/IEC 17025
Clients Served: All Interested Parties
Revised On: September 12, 2019
Valid To: May 5, 2021

Scope of Accreditation

Soil (Inorganic)

Moisture - Solids [Soil] (016)
HO-010; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GRAVIMETRIC
Total Solids

Solids (Inorganic)

Boron (Hot Water Soluble) - Solids [Soil] (003)
HI-020, HI-025; EPA 6020A (ANALYSIS) and GUPTA, 1967, SOIL SCIENCE 103: 424-428 (PREPARATION)
ICP/MS
Boron (Hot Water Soluble)

Solids (Inorganic)

Conductivity - Solids [Soil] (004)
HI-006; modified from EPA 120.1 and ON MOECC E3138
CONDUCTIVITY METER
Conductivity

Solids (Inorganic)

Cyanide - Solids [Soil] (005)
HI-008; modified from ON MOECC E3015
AUTO COLOR
Cyanide, Free

Solids (Inorganic)

Hexavalent Chromium - Solids [Soil] (006)
HI-013; modified from EPA 3060A
COLORIMETRIC
Hexavalent Chromium

† "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

Solids (Inorganic)

Mercury - Solids [Soil] (008)
HI-015; modified from EPA 7471B and USGS METHOD 1-6463-86
COLD VAPOUR AA
Mercury

Solids (Inorganic)

Metals - Paint (010)
HI-020; modified from EPA 6020A
ICP/MS - DIGESTION
Lead

Solids (Inorganic)

Metals - Solids [Soil] (015)
HI-006, HI-020; modified from EPA 6020A
ICP/MS
Calcium
Magnesium
Sodium
Sodium Adsorption Ratio (SAR) (calculation)

Solids (Inorganic)

pH - Solids [Soil] (014)
; modified from EPA 150.1 and ON MOECC E3137
pH METER
pH

Solids (Inorganic)

Total Metals - Solids [Soil] (012)
HI-020; modified from EPA 6020A
ICP/MS - DIGESTION
Aluminum
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Molybdenum
Nickel
Potassium
Selenium
Silver
Sodium
Strontium
Thallium
Tin
Titanium
Uranium

† "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

Vanadium
Zinc

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (018)

HO-007; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GC/FID - EXTRACTION

F2: C10-C16

F3: C16-C34

F4: C34-C50

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (020)

HO-009; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GRAVIMETRIC - EXTRACTION

F4: Gravimetric

Solids (Organic)

Semi-Volatile Organic Compounds (SVOC) - Solids [Soil] (021)

HO-003; modified from EPA 8270E

GC/MS - EXTRACTION

1-Methylnaphthalene

1,2,4-Trichlorobenzene

2-Chlorophenol

2-Methylnaphthalene

2-Methylphenol (o-Cresol)

2-Nitrophenol

2,4-Dichlorophenol

2,4-Dimethylphenol

2,4-Dinitrophenol

2,4-Dinitrotoluene

2,4,5-Trichlorophenol

2,4,6-Trichlorophenol

2,6-Dinitrotoluene (2,6-DNT)

3,3'-Dichlorobenzidine

4-Chloro-3-methylphenol

4-Chloroaniline (p-Chloroaniline)

Acenaphthene

Acenaphthylene

Anthracene

Benzo(a)anthracene

Benzo(a)pyrene

Benzo(b)fluoranthene

Benzo(b,i)fluoranthene

Benzo(g,h,i)perylene

Benzo(k)fluoranthene

Biphenyl (1,1-Biphenyl)

Bis(2-chloroethyl) ether

Bis(2-chloroisopropyl) ether

Bis (2-ethylhexyl) phthalate

Chrysene

Dibenzo(a,h)anthracene

Diethyl phthalate

Dimethylphthalate

Fluoranthene

Fluorene

† "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

Hexachlorobutadiene
Indeno(1,2,3 - cd)pyrene
Naphthalene
Pentachlorobenzene
Pentachlorophenol
Phenanthrene
Phenol
Pyrene

Solids (Organic)

Volatile Organic Compounds (VOC) - Solids [Soil] (022)

HO-001; modified from EPA 8260

GC/MS - PURGE AND TRAP

1,1-Dichloroethane
1,1-Dichloroethylene
1,1,1-Trichloroethane
1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,3-Dichlorobenzene
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
Acetone (2-Propanone)
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane (Ethyl Chloride)
Chloroethene (Vinyl chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dichlorodifluoromethane
Dichloromethane
Ethylbenzene
Ethylene Dibromide
Hexane
m,p-Xylene
Methyl ethyl ketone
Methyl isobutyl ketone (MIBK)
Methyl t-butyl ether
o-Xylene
Styrene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene

† "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

Trichloroethylene
Trichlorofluoromethane

Water (Inorganic)

Conductivity - Water (002)
HI-006; SM 2510 B
CONDUCTIVITY METER
Conductivity (25°C)

Water (Inorganic)

Dissolved and Extractable Metals - Water (011)
HI-020; modified from EPA 200.8
ICP/MS
Aluminum
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Molybdenum
Nickel
Potassium
Selenium
Silver
Sodium
Strontium
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc

Water (Inorganic)

Hexavalent Chromium - Water (007)
; modified from ON MOECC E3056A-1
COLORIMETRIC
Hexavalent Chromium

Water (Inorganic)

Mercury - Water (009)
HI-015; modified from EPA 245.1
COLD VAPOUR AA
Mercury

† "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

Water (Inorganic)

pH - Water (001)
HI-010; EPA 150.1
pH METER
pH

Water (Inorganic)

Total Metals - Water (013)
; modified from EPA 200.8
ICP/MS - DIGESTION
Aluminum
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Molybdenum
Nickel
Potassium
Selenium
Silver
Sodium
Strontium
Thallium
Titanium
Uranium
Vanadium
Zinc
Zirconium

Water (Organic)

Petroleum Hydrocarbons (PHC) - Water (019)
; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
GC/FID - EXTRACTION
F2: C10-C16
F3: C16-C34
F4: C34-C50

† "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