



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

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**Membership Number:** 2677  
**Laboratory Name:** Analytical Chemistry Branch  
**Parent Institution:** Canadian Nuclear Laboratories Ltd.  
**Address:** 286 Plant Road Analytical Chemistry Branch (Stn. 83) Chalk River ON K0J 1J0  
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**Standard:** Conforms with requirements of ISO/IEC 17025  
**Clients Served:** All Interested Parties  
**Revised On:** November 5, 2018  
**Valid To:** May 5, 2021

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### Scope of Accreditation

#### Acidified Liquid (Inorganic)

Metals - Liquid [Acidified Liquid] (001)  
148-127610-TEP-005; modified from ASTM D5673-10  
ICP/MS  
Aluminum  
Antimony  
Arsenic  
Beryllium  
Cadmium  
Chromium  
Copper  
Lead  
Molybdenum  
Nickel  
Selenium  
Silver  
Thallium  
Tin  
Uranium

#### Acidified Liquid (Radiochemistry)

Radionuclides - Liquid [Acidified Liquid] (008)  
148-127610-TEP-022; IN-HOUSE  
GAMMA SPECTROMETRY  
Americium-241  
Antimony-124  
Antimony-125  
Barium-133

† "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](http://www.cala.ca/cala_directories.html)

Barium-140  
Cadmium-109  
Cerium-141  
Cerium-144  
Cesium-134  
Cesium-137  
Chromium-51  
Cobalt-57  
Cobalt-60  
Europium-154  
Europium-155  
Iodine-131  
Iron-59  
Lanthanum-140  
Lead-210  
Manganese-54  
Neodymium-147  
Niobium-94  
Niobium-95  
Ruthenium-103  
Ruthenium-106  
Scandium-46  
Strontium-85  
Tellurium-123m  
Tellurium-132  
Tin-113  
Yttrium-88m  
Zinc-65  
Zirconium-95

**Acidified Liquid (Radiochemistry)**

Radionuclides Plutonium Isotopes - Liquid [Acidified Liquid] (005)  
148-127610-TEP-020; IN-HOUSE  
ALPHA SPECTROMETRY  
Plutonium-238  
Plutonium-239/240

**Acidified Liquid (Radiochemistry)**

Total Uranium and Uranium Isotopes - Liquid [Acidified Liquid] (006)  
148-127610-TEP-021; IN-HOUSE  
THERMAL IONIZATION MASS SPECTROMETRY  
Total Uranium  
Uranium-233  
Uranium-234  
Uranium-235  
Uranium-236  
Uranium-238

**Nitrate Salts (Radiochemistry)**

Total Uranium and Uranium Isotopes - Solids (007)  
148-127610-TEP-021; IN-HOUSE  
THERMAL IONIZATION MASS SPECTROMETRY  
Total Uranium  
Uranium-233  
Uranium-234  
Uranium-235

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Uranium-236  
Uranium-238

**Waste (Inorganic)**

Oil and Grease - Waste (003)  
148-127610-TEP-008; modified from SM 5520 B  
GRAVIMETRIC - EXTRACTION  
Total Oil and Grease

**Water (Inorganic)**

Heavy Water - Water (009)  
148-127610-TEP-059; IN-HOUSE  
NUCLEAR MAGNETIC RESONANCE (NMR)  
Heavy Water D2O (0-100WT%)

**Water (Inorganic)**

Solids - Water (004)  
148-127610-TEP-007, 148-127610-TEP-009; modified from SM 2540 C and SM 2540 D and SM 2540 E  
GRAVIMETRIC  
Total Dissolved Solids  
Total Suspended Solids  
Volatile Suspended Solids

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