



Cannabis Testing Services

SRC Environmental Analytical Laboratories has provided lab analysis services for over 60 years, with more than 10 years of experience in the cannabis and hemp industries. The laboratory offers several tests on cannabis and cannabis oil and is in the process of developing, validating and obtaining accreditation for several more test methods that are important to industry.

We have over 65 trained and qualified staff to ensure your samples are analyzed quickly, efficiently and accurately. Our modern, state-of-the-art facilities are equipped with an extensive array of instruments to analyze your samples. Our scientists and experts will work with you to get the highest quality results and answer any questions you have about our services.

The Saskatchewan Research Council (SRC) is licenced to conduct analytical testing for cannabis and is also considered a government laboratory per Health Canada and the *Cannabis Act*.

Cannabis Testing Services You Can Rely On

Our lab completes routine testing of cannabis plant material and cannabis oil through our regular testing process.

We offer clients a wide range of services using state-of-the-art technology. Our lab has the analytical capacity to test for:

- Potency and Cannabinoid Profiles
- Pesticides
- Aflatoxins
- Terpenes
- Metals
- Microbial Testing
- Residual Solvents
- Other components and contaminants on a wide variety of hemp and cannabis products

We can also test water, soil and air.

Quality Assurance

SRC Environmental Analytical Laboratories is accredited by the Canadian Association for Laboratory Accreditation (CALA) in accordance with the ISO/IEC 17025 standard (the internationally recognized standard for testing and calibration laboratories) for numerous tests as listed on the CALA website (www.cala.ca).

The laboratory has an extensive quality assurance and quality control program that is part of our accreditation to the ISO/IEC 17025 standard.

All test methods are validated before use.

Submitting Samples

When you use our lab for analytical testing, we will provide you with a complimentary sample submission kit (shipping is not included). Contact us to request a quote and sample kit.

Sample size

- It is recommended to submit approximately 30 grams of dried cannabis or 10-20 mL cannabis oil for testing.
- Tests for oil rancidity require more volume and 75-100 mL of oil is recommended for this test.

Sample Submission and Handling

- A completed Chain of Custody form must accompany all sample submissions. Please fill in all fields.
- Sample analysis is normally complete within 5 to 7 business days. For faster turnaround, a rush service is available for an additional charge.
- Samples are held for a minimum of 30 days after results are reported. To comply with regulatory requirements, all samples are destroyed 90 days after reporting.

DNA Testing Services

DNA testing technologies deliver rapid, cost-effective and consistent solutions to help cannabis companies maximize competitiveness. SRC Environmental Analytical Laboratories works alongside SRC Biotechnology Laboratories to provide DNA-based tests that enable plant sex-type, varietal test development and strain traceability.

We employ genomic technology to enhance quality assurance in the cannabis industry. DNA-based testing coupled with high-resolution biochemical profiling can be used to detect the presence of disease or contaminants.

We will be offering testing for the following microbial contaminants:

- Total aerobic microbial count
- Total combined yeast and mold count
- Bile-tolerant gram-negative bacteria
- E.coli (presence and absence)
- Salmonella spp. (presence and absence)

Tests Available for Cannabis Plant Materials

Testing can be performed on the following types of samples: Plant tissue (cannabis and hemp), oil, liquids, solids and capsules.

- Metals
 - **Trace Metals** in Cannabis or Cannabis Oil package: Aluminum, Antimony, Arsenic, Bismuth, Boron, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Titanium, Uranium, Vanadium, Zinc, Calcium, Magnesium, Sodium, Potassium, Phosphorous
 - **Heavy Metals** in Cannabis or Cannabis Oil package: Arsenic, Cadmium, Lead and Mercury
- Loss on Drying (Moisture)
- Potency (THC/THCA, CBD/CBDA)
- Cannabinoid Profile
 - Complete profile of several cannabinoids in addition to the 4 cannabinoids determined for potency. This is in active development and the service is expected to be available in early 2019.
- Pesticides
 - Determination of all 96 pesticide active ingredients that have a Limit of Quantitation (LOQ) identified in Health Canada's *Mandatory Cannabis Testing for Pesticide Active Ingredients – List and Limits*.

Coming soon in early 2019

- Microbial
- Aflatoxins
- Terpenes
- Water Activity
- Foreign Matter

Pending validation, we can coordinate the testing of these parameters through a subcontract laboratory.

As per Health Canada's guidelines for promotion, this document should not be re-distributed and is meant for audiences who are least 19+ or the legal age of majority in their province of residence.