



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.

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 licensed to conduct analytical testing for cannabis and is also considered a government laboratory per Health Canada and the *Cannabis Act*.

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.

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.

Submitting Samples

Contact us to request a quote.

Sample size

- For the full testing suite, 50 grams of dried cannabis is recommended; a minimum of 30 grams is required.
- For cannabis oils, the recommended sample size is 30 mL; a minimum of 20 mL is required.
- Tests for oil rancidity require substantially more oil; the recommended sample volume is 100 mL of oil.
- Note that microbial analysis is performed to meet USP 2023 specifications. If another specification (such as EP) is required, the sample amount may vary. Please contact the lab if an alternative specification is required.

Please refer to our Sample Size Requirements document on our website for more details.

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.

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.
- 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*.
- Microbial
 - Total Aerobic Microbial Count
 - Total Combined Yeast and Mould Count
 - Bile-Tolerant Gram-Negative Bacteria
 - E. Coli (presence/absence)
 - Salmonella spp. (presence/absence)
 - Paeruginosa (presence/absence)
 - S.aureus (presence/absence)
- Aflatoxins
- Terpenes
- Water Activity
- Foreign Matter
- Gender Identification (Sex Typing)
 - Contact the laboratory for a test kit and sampling instructions

Cannabis 2.0 Materials

With the legalization of other cannabis products, such as edibles and topicals, there is a need to test these materials using validated methods, as per Health Canada regulations.

We can work with you to complete the necessary validation, and provide you with validation reports and on-going test services to meet your needs.

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.