

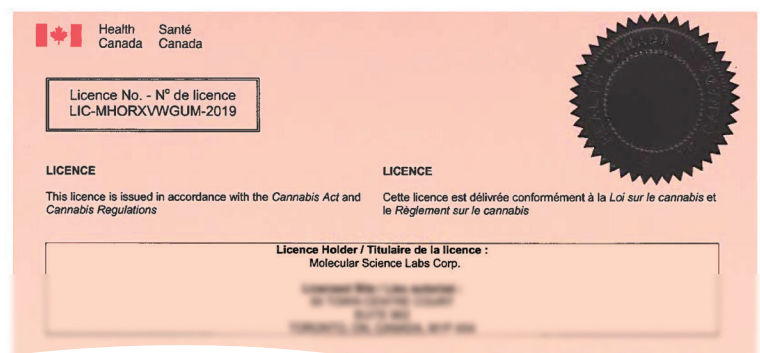
**Molecular Science Corp. (MSC)** is a leading analytical services company focused on cannabis and cannabis-derived products. MSC operates a state-of-the-art laboratory under a CTLS Analytical Testing Licence, and a mobile laboratory that can be deployed to cultivation and manufacturing sites across Canada. All MSC analytical methods are fully validated to ensure accuracy and reliability.

## CENTRAL LAB TESTING SERVICES

Test	Description
Pesticides (Dried Flower & Oil)	Detection and quantitation of regulated pesticides by LC-MS/MS and GC-MS/MS with LOQs meeting or exceeding Health Canada requirements for all 101 regulated pesticides.
Potency (Dried Flower & Oil)	Quantitation by HPLC-UV of 11 major cannabinoids: $\Delta 9$ -THC, $\Delta 8$ -THC, $\Delta 9$ -THCA, THCV, CBDV, CBDA, CBGA, CBG, CBD, CBN, CBC.
Heavy Metals (Dried Flower & Oil)	Quantitation of regulated heavy metals (Arsenic, Cadmium, Lead, Mercury) by ICP-MS according to USP <233> (LOQs for Inhalation Drugs).
Residual Solvents (Oil)	Screening for residual solvents by LOD using pharmaceutical grade vacuum ovens according to USP <731>. Quantitation by Headspace GC-MS/FID of up to 29 residual solvents.
Water Content (Dried Flower & Oil)	Loss on Drying (LOD) using pharmaceutical grade vacuum ovens according to USP <731> or Karl Fischer analysis of water content according to USP <921>
Aflatoxins (Dried Flower & Oil)	Detection of aflatoxins by LC-MS/MS according to EP limits for B1, B2, G1 & G2 for herbal drugs (2.8.18)
Peroxide Value (Oil)	Detection and quantitation of Peroxide Value in cannabis oil according to USP <401>
Terpenes (Dried Flower & Oil)	Quantitation of 35 terpenes by GC-MS/FID, providing informational and easy to interpret profile.
Microbial (Dried Flower & Oil)	Total yeast and mold count, total aerobic count, bile tolerant gram negative bacteria, P. aeruginosa, S. aureus. Performed by qualified and licensed partner labs.

MSC also develops robust test methods for other product types including: edibles/beverages, extracts, topicals, as well as additional compounds of interest (cannabinoids, terpenes, toxins, etc.), and unique cannabis strains upon request.

## MSC has been issued its CTLS license:



### Contact MSC

Tel: (416) 800-0479

Email: [BD@mscience.ca](mailto:BD@mscience.ca)

[www.mscience.ca](http://www.mscience.ca)