

- Dried Flower
- Edibles/beverages
- Extracts (Oil, Distillate, Resins, Wax, Shatter)
- Vapes
- Topicals
- Pharmaceutical formulations (gel-caps, solid dose)

## From research to release.

MSC provides all tools and services required to succeed through quality compliance - testing services required by Health Canada for lot-release - as well as analytical services for information purposes, including product profiling, development and improvement.



### PESTICIDES

Detection and quantitation of regulated pesticides by LC-MS/MS and GC-MS/MS with LOQs meeting or exceeding Health Canada requirements for all 98 regulated pesticides.



### POTENCY

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

Quantitation of regulated heavy metals (Arsenic, Cadmium, Lead, Mercury) by ICP-MS according to USP <232> (LOQs for Inhalation Drugs).



### RESIDUAL SOLVENTS

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

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

Detection of aflatoxins by LC-MS/MS according to EP limits for B1, B2, G1 & G2 for herbal drugs (2.8.18)



### PEROXIDE VALUE

Detection and quantitation of Peroxide Value in cannabis oil according to USP <401>



### TERPENES

Quantitation of 35 terpenes by GC-MS/FID, providing informational and easy to interpret profile.



### MICROBIAL

Total yeast and mold count, total aerobic count, bile tolerant gram negative bacteria, P. aeruginosa, S. aureus. Performed by qualified and licensed partner labs.