

Testing Services

Routine Testing Services

Test Types	R&D Sample Amount			
	Flower	Concentrate	Infused	
Potency & Cannabinoid Profile	1g	0.5g	1 serving	\$40
Terpene Profile	1g	1g		\$80
Microbial Contaminants	2g	2g	2g	\$150: all targets \$20 ea: YMR, ECT, TAC \$30 ea: ECI, SAL, ETB
Pesticides	1g	1g		\$225
Heavy Metals + Nutrients	1g	1g	1g	Compliance: \$50 Nutrient Add-on: +\$50
Residual Solvents		1g		\$65
Mycotoxins	0.5g	0.5g	0.5g	\$100
Homogeneity		2 x 0.5g	2 x 1 serving	\$80
Water Activity	1g		1 serving	\$40
Moisture Content	1g			\$25
Filth & Foreign Material	1g	1g	1g	\$40
Virus Testing Including HLVd	1 fan leaf			\$50
Plant Gender (Sex Testing)	1 fan leaf			\$20
Microbial Speciation	2g			\$125

CONTACT US FOR PACKAGE PRICING

Additional Services



On-Site Training

All of our clients are entitled to a free on-site training to ensure best practices are followed to minimize the risk of test failures.



Plan to Pass

Our goal is to provide the most efficient testing service and pass on your first attempt. This means making sure all best practices are followed. If you have a new facility or operation, our experienced scientists can walk-through your facility and review your operating plans. We will provide you advice that aids in efficiently passing lab tests.



Environmental Testing

Help diagnose microbe, heavy metal and pesticide issues with soil, water, air and surface sampling/swabbing.



Special Projects

Have a specific test or analyte you need? Let us know and we will develop the test for you!

CoA Example



Virus Testing

This test detects infection from Hop Latent Viroid (HLVd), Lettuce Chlorosis Virus (LCV), and Cannabis Cryptic Virus (CCV). With HLVd being the largest concern, infection from these viruses can result in a major loss of yield. It is most important to test all incoming clones to ensure the infection does not spread through an entire cultivation facility.

Viruses may not be present in all areas of the plant. For the most accurate testing, test each plant 3 times by submitting samples from the bottom, middle and top. Less tests may be necessary for smaller plants and ones showing clear signs of budding.

TEST DETAILS

Potency & Cannabinoid Profile

This assay reports the total mg/g and weight % of 20 cannabinoids. Our advanced methodology separates isomers of THC (delta-8, delta-10, exo-THC) that are commonly misidentified.

Reported analytes are:

THC, THCA, CBD, CBDA, CBG, CBGA, CBDV, CBDVA, THCV, THVCA, CBN, CBNA, exo-THC, delta-8-THC, delta-10-THC, CBL, CBLA, CBC, CBCA

Terpene Profile

Total mg/g and weight % of 58 Terpenes are reported. Find the full list of Terpenes at nova-analyticlabs.com

Microbial Contaminants

Legacy culture and plating methods have been shown to be unreliable. Therefore, we use an innovative and automated platform that relies on a combination of metabolic and DNA-based PCR technologies to make our analysis the most accurate in the industry.

The presence and/or quantity of the following 6 targets are reported:

ECI (E. coli), SAL (salmonella), ETB (enterobacter), YMR (total yeast & mold), ECT (total coliforms), TAC (total aerobic bacteria)

Mycotoxins

Some harmful molds produce toxic chemicals call mycotoxins. This assay detects Aflatoxin B1, B2, G1, G2 and Ochratoxin A

Heavy Metals

The standard assay, a requirement for Maine compliance testing, measures Cadmium, Lead, Arsenic and Mercury.

Nutrient add-on includes:

Phosphorus, Calcium, Magnesium, Potassium, Sulfur, Iron, Zinc, Manganese, Molybdenum, Copper, Boron, Sodium, Silicon

Residual Solvents

The amount of the following 20 solvents are reported:

Butane, Hexane, Acetone, Benzene, Ethanol, Heptane, Pentane, Propane, Toluene, Methanol, Chloroform, Ethyl Ether, Acetonitrile, Ethyl Acetate, Ethylene Oxide, Xylenes, Isopropanol, Trichloroethylene, 1,2-Dichloroethane, Methylene Chloride

Pesticides

This assay reports the presence of the following 66 pesticides, fungicides, and herbicides.

Abamectin

Acephate

Acequinocyl

Acetamiprid

Aldicarb

Azoxystrobin

Bifenazate

Bifenthrin

Boscalid

Carbaryl

Carbofuran

Chlorantraniliprole

Chlorfenapyr

Chlorpyrifos

Clofentezine

Cyfluthrin

Cypermethrin

Daminozide

Diazinon

Dichlorvos

Dimethoate

Ethoprophos

Etofenprox

Etoxazole

Fenoxycarb

Fenpyroximate

Fipronil

Flonicamid

Fludioxonil

Hexythiazox

Imazalil

Imidacloprid

Kresoxim-methyl

Malathion

Metalaxyl

Methiocarb

Methomyl

MGK 264 Isomer1

MGK 264 Isomer2

Myclobutanil

Naled

Oxamyl

Paclobutrazol

Parathion-methyl

Permethrin cis & trans

Phosmet

Piperonylbutoxide

Prallethrin

Propiconazole

Propoxur

Pyrethrins (6 isomers)

Pyridaben

Spinosad

Spiromesifen

Spirotetramat

Spiroxamine

Tebuconazole

Thiacloprid

Thiamethoxam

Trifloxystrobin

ADULT USE COMPLIANCE TESTING

These tests are required for each form of Cannabis and Cannabis Product before transferring to retail



Required Test in Final Form



Exceptions may exist based on testing history. See more below.



Mycotoxins required only when product is remediated or retested due to Yeast & Mold Failure

Potency	Microbial	Pesticides	Water Activity	Foreign Material	Homogeneity	Heavy Metals	Residual Solvents	Mycotoxins	Full Package Cost Without mycotoxin
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CANNABIS, PRE-ROLL, KIEF

									\$545
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CONCENTRATE

Solventless do not require Residual Solvents

									\$650
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SEMI-SOLID or SOLID INFUSED

									\$400
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PRESERVED INFUSED PRODUCTS

(e.g. refrigerated beverages, ice cream, etc.)

									\$360
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Final Form Testing

requires the test is performed at least once in the testing process

What this means:

- > Fresh Frozen - If tested for Heavy Metals skip HVM testing on concentrates/products
- > Residual Solvents - Do not test products made with concentrate already tested for RSA
- > Pesticides - Do not test products or concentrate already tested for PST
- > Heavy Metals - Do not test products or concentrate already tested for HVM

Harvest Batch	Sample
<2.5 kg	13 Increments of 0.5 g = 6.5 g
2.5 kg to <5 kg	19 Increments of 0.5 g = 9.5 g
5 kg to <7.5 kg	16 Increments of 1.0 g = 16 g
7.5 kg to <10 kg	22 Increments of 1.0 g = 22 g

Production Batch	Sample
<0.5 kg	12 Increments of 0.5 g = 6.0 g
0.5 kg to <1 kg	16 Increments of 0.5 g = 8.0 g
1 kg to <1.5 kg	20 Increments of 0.5 g = 10 g
1.5 kg to <2.0 kg	24 Increments of 0.5 g = 12 g
2.0 kg to <5.0 kg	28 Increments of 0.5 g = 14 g

Production Units*	Sample
<50	2** Units
50 - 150	3** Units
151 - 500	5** Units
501 - 1,200	8 Units
1,201 - 3,200	13 Units
3,201 - 10,000	20 Units

*Production Units can be unpackaged servings or packaged retail units of cannabis concentrates & products
** Testing requires a minimum of 6 units

DID YOU REMEMBER?

> Select the right type of test in METRC (e.g. Metals Flower/Trim vs. Metals Concentrate)

> Use R&D testing to screen for micro and heavy metals to avoid costly compliance failures

> Homogeneity requires collection of two additional 1 gram increments in separate containers. This counts towards the required sample size

> Chain of Custody (COC) is completely electronic in TagLeaf. Make use of the METRC integration to expedite order entry

> Enter your serving and package sizes (in grams) for edible products

> Print 3x METRC Manifests and 3x TagLeaf COCs to transport samples

> Contact us to assist you at any point and to schedule sample pickups

> Use security seals and "For Testing Purposes Only"

ADULT USE TESTING THRESHOLDS

RESIDUAL SOLVENTS (mg/kg, ppm)

Acetone	5000
Acetonitrile	410
Butane	5000
Ethanol	5000
Ethyl Acetate	5000
Ethyl Ether	5000
Heptane	5000
Hexane	290
Isopropyl Alcohol	5000
Methanol	3000
Pentane	5000
Propane	5000
Toluene	890
Total Xylenes	2170
1,2-Dichloroethane	1
Benzene	1
Chloroform	1
Ethylene Oxide	1
Methylene Chloride	1
Trichloroethylene	1



POTENCY

Edibles only: Total THC must be ≤ 10.5 mg/serving and ≤ 105 mg in the entire package



WATER ACTIVITY

Plant material, excluding fresh frozen, must be < 0.65 aW.
Solid or semi-solid products must be < 0.85 aW.



MYCOTOXINS

All Mycotoxins combined (Total Mycotoxins) must be less than 20 ppb or ug/kg



HOMOGENEITY

Concentrates and manufactured products must have a % RSD $\leq 15\%$ between the 3 individual homogeneity increments



FOREIGN MATERIAL

Fails for one insect (dead or alive), hair, or mammalian excreta. Fails if $> 1/4$ of the surface is covered by Mold, Soil, Sand, Dirt or embedded foreign material.



PESTICIDES

Level must be below the minimum reporting limit (ranges from 0.2 - 2 ppm)

Heavy Metals (ug/kg, ppb)

	Plant	Extracts	Inhalation Products	Ingestion, Edibles, or Suppository	Topical
Cadmium	200	200	200	500	5,000
Lead	500	500	500	500	10,000
Arsenic	200	200	200	1,500	1,000
Mercury	100	100	100	3,000	1,000

Microbial Analysis (CFU/g)

Total Viable Aerobic Bacteria	100,000
Total Yeast and Mold	10,000
Total Coliform	1,000
Enterobacteriaceae	1,000
E. coli (pathogenic strains)	< 1
Salmonella	< 1