



### SOIL AND NUTRIENT LAB

Plant Analysis Packages		
<b>Cannabis Package</b>	Total nitrogen (TN), Phosphorus (P), Potassium (K), Magnesium (Mg) and Calcium (Ca), Aluminum (Al), Boron (B), Copper (Cu), Iron (Fe), Manganese (Mn), Molybdenum (Mo) Sodium (Na), Sulphur (S) and Zinc (Zn) in botanical material.  AFL is an OMAFRA-accredited laboratory using OMAFRA-accredited tests. Although tissue analysis is not specifically part of the OMAFRA accreditation program, OMAFRA-accredited labs demonstrate the necessary proficiency to perform plant tissue analysis. As an OMAFRA-accredited lab, the AFL participates in the North American Proficiency Testing Program (NAPT).	\$70.00

### PLANT DISEASE CLINIC

Cannabis Virus Screen (ELISA)		
<b>Cannabis Virus Screen by ELISA</b>	<ul style="list-style-type: none"> <li>• Alfalfa Mosaic Virus (AMV)</li> <li>• Arabis Mosaic virus (ArMV)</li> <li>• Cucumber Mosaic Virus (CMV)</li> <li>• Tobacco Ringspot Virus (TRSV)</li> <li>• Tobacco Streak Virus (TSV)</li> <li>• Tobacco Mosaic Virus (TMV)</li> <li>• Tomato Bushy Stunt Virus (TBSV)</li> <li>• Tomato Mosaic Virus (ToMV)</li> <li>• Tomato Ringspot Virus (ToRSV)</li> </ul>	Volume Based (See pricing table below)

		Number of Viruses Tested by ELISA								
		1	2	3	4	5	6	7	8	9
Number of Samples Tested	1	\$100.60	\$129.60	\$150.40	\$172.40	\$194.40	\$215.20	\$236.00	\$258.00	\$278.80
	2	\$122.60	\$162.00	\$190.90	\$219.80	\$248.70	\$278.80	\$307.70	\$336.70	\$365.60
	3	\$140.00	\$186.30	\$224.40	\$261.50	\$298.50	\$335.50	\$372.50	\$409.50	\$446.60
	4	\$157.30	\$211.70	\$256.80	\$301.90	\$347.10	\$392.20	\$437.30	\$482.40	\$527.50
	5	\$174.70	\$237.20	\$290.40	\$343.60	\$396.80	\$450.00	\$503.20	\$556.50	\$608.50
	6	\$192.00	\$262.60	\$323.90	\$385.20	\$445.40	\$506.70	\$568.00	\$629.40	\$689.50
	7	\$209.40	\$288.10	\$357.50	\$425.70	\$495.20	\$563.40	\$632.80	\$702.20	\$770.50
	8	\$226.80	\$313.50	\$389.90	\$467.40	\$543.70	\$621.30	\$697.60	\$775.10	\$851.50
	9	\$244.10	\$339.00	\$423.40	\$507.90	\$593.50	\$677.90	\$763.60	\$848.00	\$932.50
	10	\$261.50	\$364.40	\$457.00	\$549.50	\$642.10	\$735.80	\$828.30	\$920.90	\$1,013.40

RT-PCR Method for Hop Latent Viroid		
<b>Hop Latent Viroid by RT-PCR</b>	<ul style="list-style-type: none"> <li>• Hop Latent Viroid</li> </ul>	\$95.00/sample If < 10 samples, \$100.00 set-up fee. If > 20 samples, \$85.50/sample

Plant Disease Diagnosis		
<b>Diagnosis</b>	<ul style="list-style-type: none"> <li>• Various (see below)</li> <li>• Diseases of Hemp (Source: APS) (<a href="https://www.apsnet.org">https://www.apsnet.org</a>)</li> </ul>	Starts at \$95.00/sample

FUNGAL DISEASES
Anthrachnose ( <i>Colletotrichum coccodes</i> )
Black dot disease ( <i>Epicoccum nigrum</i> )
Brown blight ( <i>Alternaria alternata</i> )
Brown leaf spot and stem canker ( <i>Ascochyta</i> and <i>Phoma</i> spp.)
Charcoal rot ( <i>Macrophomina phaseolina</i> )
Cladosporium stem canker ( <i>Cladosporium</i> spp.)
Curvularia leaf spot ( <i>Curvularia</i> spp.)
Cylindrosporium blight ( <i>Cylindrosporium</i> sp.)
Damping-off ( <i>Botrytis cinerea</i> , <i>Fusarium oxysporum</i> , <i>Fusarium solani</i> , <i>Macrophomina phaseolina</i> , <i>Pythium</i> spp., <i>Rhizoctonia solani</i> )
Fusarium foot rot and root rot ( <i>Fusarium solani</i> )
Fusarium stem canker ( <i>Fusarium sulphureum</i> )
Fusarium wilt ( <i>Fusarium oxysporum</i> )
Downy mildew ( <i>Pseudoperonospora</i> spp.)
Gray mold ( <i>Botrytis cinerea</i> )
Hemp canker ( <i>Sclerotinia sclerotiorum</i> )
Leptosphaeria blight ( <i>Leptosphaeria</i> spp.)
Olive leaf spot ( <i>Cercospora cannabis</i> , <i>Pseudocercospora cannabina</i> )
Ophiobolus stem canker ( <i>Ophiobolus</i> spp.)
Phoma stem canker ( <i>Phoma</i> spp.)
Phomopsis stem canker ( <i>Phomopsis</i> spp.)
Pink Rot ( <i>Trichothecium roseum</i> )
Powdery mildew ( <i>Oidium</i> and <i>Oidiopsis</i> sp.)
Rust ( <i>Aecidium cannabis</i> , <i>Uredo kriegneriana</i> , <i>Uromyces insonspicuus</i> )

FUNGAL DISEASES (continued)
Tar spot ( <i>Phyllachora cannabidis</i> )
Tropical rot ( <i>Botryodiplodia theobromae</i> )
Twig blight ( <i>Botryosphaeria marconii</i> )
Verticillium wilt ( <i>Verticillium</i> spp.)
White leaf spot ( <i>Phomopsis ganjae</i> )
Yellow leaf spot ( <i>Septoria</i> spp.)

VIRAL AND VIROID DISEASES
Hop Latent Viroid, Tobamovirus Group [Also see virus screening (ELISA) list above.]

PHYTOPLASMAL DISEASES
Witches' broom

BACTERIAL DISEASES
Bacterial blight ( <i>Pseudomonas syringae</i> pv. <i>cannabina</i> )
Crown gall ( <i>Agrobacterium tumefaciens</i> )
Striatura ulcerosa ( <i>Pseudomonas syringae</i> pv. <i>mori</i> )
Xanthomonas leaf spot ( <i>Xanthomonas campestris</i> pv. <i>cannabis</i> )

NEMATODE DISEASES
Cyst (Heteroderidae)
Root-knot ( <i>Meloidogyne</i> sp.)
Stem ( <i>Ditylenchus</i> sp.)

Percent Germination		
<b>Germination % - Canadian Methods and Procedures for Testing Seed</b>	<ul style="list-style-type: none"> <li>• 200 seeds (submit exact amount)</li> </ul>	\$55.00/sample