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A&L CANNABIS ANALYSIS

Services, Weights, and Turnaround Time (TAT)

To:
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HEALTH CANADA CANNABIS ANALYSIS	HEALTH CANADA REGULATED PRODUCT PACKAGE “LOT RELEASE”			
	Common Health Canada Package	CODE	AMOUNT 40-50 g	TAT
	Complete Cannabinoid Profile (16) – HPLC- CBCA, CBC, CBL, CBD, CBDA, CBDV, CBDVA, CBG, CBGA, CBN, CBNA, Delta-8 THC, Delta-9 THC, Delta-9 THCA, THCV, THCVA *Moisture is Recommended for Potency & Terpenes tests for proper THC results**	THCCBDMM	3 g	3 day
	Microbiological Scan (USP/EP methods): Bile Tolerant Gram-Negative Bacteria, Total Aerobic Plate Count, Total Yeasts & Molds, <i>Pseudomonas aeruginosa</i> , <i>Staphylococcus aureus</i> , <i>E. coli</i> , <i>Salmonella</i> spp (P/A 10g). <i>standard herbal specification</i>	MICROMM	12-17 g	5 day
	Aflatoxins (B1+B2+G1+G2)– LC-MS/MS	ALFAMM	2 g	5 day
	Health Canada Pesticide Scan – LC-MS/MS & GC-MS/MS (96 analytes)	HCPESTMM	3 g	5 day
	Regulated Heavy Metals – ICP-MS- Arsenic, Cadmium, Lead, Mercury	EPZMM	5 g	3 day
	Visual Inspection – Extraneous Foreign Material	VISMM	10 g	1 day
	Moisture (Loss on Drying) * Recommended for Potency /Terps	MOISTMM	2 g	3 day

CANNABIS ANALYSIS	CANNABIS ANALYSIS			
	ANALYSIS	CODE	AMOUNT	TAT
	Water Content / Moisture Moisture (Loss on Drying) * Recommended for Potency & Terpenes tests * Water Activity (Aw) – Recommended for all Dried cannabis to accompany Moisture/LOD. Recommended for edibles / food	MOISTMM	2 g	3 day
		BAWF610	2 g	3 day
	Total % THC/CBD –HPLC -Total CBD, Total THC (Designed for Non-Lot release, harvest timing + Hemp) *Moisture is Recommended* *Not for extracts*	CANTOTMM	3 g	3 day
	Complete Cannabinoid Profile (16) – HPLC - CBCA, CBC, CBL, CBD, CBDA, CBDV, CBDVA, CBG, CBGA, CBN, CBNA, Delta-8 THC, Delta-9 THC, Delta-9 THCA, THCV, THCVA *Moisture is Recommended for Potency & Terpenes tests for proper THC results* (Lot release)	THCCBDMM	3 g	3 day
	Microbiological Scan (USP/EP methods): Bile Tolerant Gram-Negative Bacteria, Total Aerobic Plate Count, Total Yeasts & Molds, <i>Pseudomonas aeruginosa</i> , <i>Staphylococcus aureus</i> , <i>E. coli</i> , <i>Salmonella</i> spp (P/A 10g). <i>standard herbal specification</i>	MICROMM	12-17g	5 day
	Aflatoxins - LC-MS/MS - (B1+B2+G1+G2)	ALFAMM	2 g	5 day
	Aflatoxins + Ochratoxin A – LC-MS/MS	ALFOAMM	2 g	5 day
	Mycotoxin Scan– LC-MS/MS	INQUIRE	2 g	5 day
	Health Canada 96 Pesticide Scan - LC-MS/MS & GC-MS/MS (96 analytes)	HCPESTMM	3 g	5 day
	Regulated Heavy Metals - ICP-MS – As, Cd, Pb, Hg (other heavy metals upon request available)	EPZMM	5 g	3 day



CANNABIS ANALYSIS

CANNABIS ANALYSIS

ANALYSIS (continued)	CODE	AMOUNT	TAT	
Terpene Profile (38) – GC/FID- alpha-Bisabolol, alpha-Cedrene, alpha-Humulene, alpha-Phellandrene, alpha-Pinene, alpha-Terpinene, alpha-Terpineol, beta-Caryophyllene, beta-Myrcene, beta-Ocimene, beta-Pinene, Borneol, Camphene, Camphor, Caryophyllene oxide, Cedrol, cis-Nerolidol, d-Limonene, delta-3-Carene, Eucalyptol, Fenchol, Fenchone, gamma-Terpinene, Geraniol, Geranyl acetate, Guaiol, Isoborneol, Isopulegol, Linalool, Menthol, NEROL, p-Cymene, Pulegone, Sabinene, Sabinene hydrate, Terpinolene, trans-Nerolidol, Valencene *Moisture is Recommended for Potency & Terpenes tests for proper THC results* Includes Total Terpene Profile %	TERPENESMM	3 g	3 day	
Visual Inspection - Extraneous Foreign Matter	VISMM	10 g	1 day	
Residual Solvents: HS-GC-FID Residual Solvents Package: -acetonitrile, ethanol, Isobutane, Isopropanol, n-butane, n-hexane, propane, heptane Residual Solvent: – ethanol only Residual Solvent: – acetone, methanol *request only*	SOLVENTMM 002ETOH	1 g 1 g	3 day 3 day	 Add to SOLVENTMM
Density for Oil – Can only be conducted on light oils, not thick concentrated oils, distillates etc.	SGMM	10 mL	1 day	
New Microbiological Rapid Methods Rapid USP/EP Herbal Micro Package (Y&M 3M Petri-films) (3 business days) qPCR Package Y&M – validation in progress	BMRPDMM -	12-17 g -	3 day 3 day	
Potency for 2.0 Products Extracts – (16 Cannabinoids) <i>(Distillates, vape oils, concentrates, Hash, BHO, etc.)</i> Edibles – (THC/CBD) – Chocolate, Gummy, Candy, Beverage, emulsions, sugar, oral strips, tablets Topicals – (THC/CBD) – Lotion, creams, bath salts, oils, balms. <i>(Note: Topicals may require additional methods and costs)</i>	THCCBDMM CAN2MM CAN2MM	0.5g 5g 5g	3 day 3 day 3 day	
Melatonin	Inquire			
Heavy Metal – Topicals Antimony (Sb)	E4	2g	3 day	
Potency Method Verification - verify A&L methods for your products. Documentation preparation available				



CANNABIS MICROBIOLOGICAL PACKAGES

Additional microbiological packages to support specifications for Dried Cannabis and other Cannabis 2.0 products

- 5 parameter micro package: TAPC, TYMC, BTGN +, *E. coli*, *Salmonella* spp. (unless stated otherwise)
- 7 Parameter micro package: 5 parameters + *Pseudomonas aeruginosa*, *Staphylococcus aureus*
- Herbal test limits - TAPC 100cfu/g, TYMC 100 cfu/g, BTGN 10cfu/g
- Inhalation/oral test limits: TAPC 100cfu/g, TYMC 10 cfu/g, BTGN P/A
- P/A tests in 1g unless stated otherwise (eg; *Salmonella* spp.)
- See additional Microbiological Lists for detailed information on each package

MICROBIOLOGICAL TESTING

ANALYSIS	CODE	MINIMUM AMOUNT	TAT
Herbal Microbial specifications – Dried Cannabis			
Standard USP/EP Herbal Micro Package (7 param, <i>Salmonella</i> 10g)	MICROMM	12-17 g	5 day
USP/EP 5.1.8 Herbal Micro Package (7 param, <i>Salmonella</i> 25g)	BMICROMM	27-32g	5 day
EP 5.1.8 Herbal Micro Package (5 param, <i>Salmonella</i> 25g)	BHNRMM	27-32g	5 day
Modified EP 5.1.8 Herbal Micro Package (5 param, <i>Salmonella</i> 10g)	BHNR1MM	12-17 g	5 day
USP <2023> Micro Package (5 param, <i>E. coli</i> & <i>Salmonella</i> 10g)	BNDSMM	12-17 g	5 day
Rapid USP/EP Herbal Micro Package (7 param, <i>Salmonella</i> 10g) (uses 3M Rapid Y&M Petri-film validated method) (3 business days)	BMRPDMM	12-17 g	3 day
2.0 Product Micro Packages			
Extracts and formulated products:			
USP/EP Inhalation + Oral Micro Package (7 param, <i>Salmonella</i> 10g)	MICRO10MM	12-17 g	5 day
USP/EP Inhalation Micro Package (5 param, <i>P. aeruginosa</i> , <i>S. aureus</i> , no salmonella or <i>E. coli</i>)	BMINMM	3-10g	5 day
Topical Micro Package (TAPC, TYMC, <i>P. aeruginosa</i> , <i>S. aureus</i>)	BTOPMM	4-6g	5 day
Oral Film/Strip Micro Package (Orodispersible – report per film) (TAPC, TYMC, <i>P. aeruginosa</i> , <i>S. aureus</i> , <i>E. coli</i>)	BFILMM	16 Films	5 day
HC accredited Food Methods – Used for final edible products - (Coliforms replaces BTGN):			
Solid Food Package (5 param, <i>Salmonella</i> 25g)	BCFZMM	35-45 g	5 day
Liquid Food Package (5 param, <i>Salmonella</i> 25g)	BCFLMM	35-45 g	5 day
Solid Food Package (7 param, <i>Salmonella</i> 25g)	BCFZ7MM	35-45 g	5 day
Liquid Food Package (7 param, <i>Salmonella</i> 25g)	BCFL7MM	35-45 g	5 day
Individual Micro tests.			
Microbial - Cannabis Food - Listeria mono	BLMF210MM	25-50 g	2 day
Microbial - Cannabis Food – <i>E. coli</i> 0157:H7	BEHF210MM	25-50 g	2 day
Microbial - Cannabis Food – Listeria spp.	BLSF210MM	25-50 g	2 day
Microbial - Cannabis Food – Shigella spp.	BSSF210MM	25-50 g	2 day
Microbial - Cannabis Food - Enterobacteriaceae	BEBF260MM	10-20 g	2 day
Other Microbial parameters and method available upon request.	Inquire		
Vape Cartridge Processing for Micro	BCART		



MICROBIOLOGICAL TESTS OF ENVIRONMENTAL SAMPLES FOR CANNABIS

MICROBIOLOGICAL TESTS OF ENVIRONMENTAL SAMPLES

ANALYSIS	CODE	AMOUNT	TAT
Air Samples of Settle Plates			
Total Aerobic Colony Count	BTCA240MM	plate	2 day
Total Yeasts & Molds	BYMA480MM	plate	5 day
Water Microbiological Analysis Package			
Microbiological Scan: Heterotrophic Plate Count, Total Coliforms, <i>E. coli</i> , <i>Salmonella</i> spp., Total Yeast & Mold, Bile Tolerant Gram Neg. Bacteria, <i>Staphylococcus aureus</i> , <i>Pseudomonas aeruginosa</i>	MICROWMM	500 mL	5 day
Waterborne Plant Pathogen Analysis Package			
<i>Fusarium</i> spp., <i>Fusarium oxysporium</i> , <i>Fusarium solani</i> , <i>Pythium</i> spp., <i>Verticillium albo-atrum</i> , <i>Verticillium dahliae</i>	BWBD	200 mL	5 day
Soil /Media Microbiological Analysis Package			
Microbiological Scan: Bile Tolerant Gram-Negative Bacteria, Total Aerobic Colony Count, Total Yeasts & Molds, <i>Pseudomonas aeruginosa</i> , <i>Staphylococcus aureus</i> , total coliforms, <i>E. coli</i> , <i>Salmonella</i> spp.	BSOILMM	100 grams	5 day
Soilborne Plant Pathogen Analysis Package			
<i>Botrytis cinerea</i> , <i>Colletotrichum coccodes</i> , <i>Fusarium</i> spp., <i>Fusarium oxysporium</i> , <i>Fusarium solani</i> , <i>Phytophthora</i> spp., <i>Pythium</i> spp., <i>Rhizoctonia solani</i> , <i>Sclerotinia sclerotiorum</i> , <i>Verticillium albo-atrum</i> , <i>Verticillium dahliae</i>	BSPMM	50 g	5 day
Swabs / Other			
Microbiological Scan: Bile Tolerant Gram-Negative Bacteria, Total Aerobic Colony Count, Total Yeasts & Molds, <i>Pseudomonas aeruginosa</i> , <i>Staphylococcus aureus</i> , total coliforms, <i>E. coli</i> , <i>Salmonella</i> spp.	BSWABMM		5 day
Supplies Available to Order			
3M Sponge swabs. One package contains 25 swabs	BSWAB		
3M quick cotton swab. One package contains 25 swabs	B3MQSWAB		
Settle plates for total bacteria	BSMA		
Settle plates for total yeasts and molds	BPDA		
Sterile bottles with sodium thiosulfate for water sampling (250 mL bottle) (Ship cool)	BBOTNA		
Syringe 5 mL with locking tip	BSYR5mL		
Syringe 20 mL with locking tip	BSYR20mL		
Water bottle for nutrient testing (500 mL bottle)	BBOTTLER		



ANALYSIS	CODE	AMOUNT	TAT	
Cannabis Leaf Disease Scan				
Pseudomonas syringae, Xanthomonas campestris, Alternaria alternata, Botrytis cinerea, Cladosporium spp., Colletotrichum coccodes, Golovinomyces cichoracearum, Leveillula taurica, Phytophthora infestans, Pseudoperonospora humuli, Sphaerotheca macularis, Stemphylium botryosum	BCLDS	2 grams	3-5 day	
Cannabis Bud Disease Scan				
Alternaria alternata, Botrytis cinerea, Cladosporium spp., Colletotrichum spp., Fusarium spp., F. oxysporum, F. solani, Golovinomyces cichoracearum, Leveillula taurica, Pseudoperonospora humuli, Sphaerotheca macularis, Stemphylium botryosum	BCBDS	2 g	3-5 day	
Cannabis Root Disease Scan				
Colletotrichum coccodes, Fusarium spp., Fusarium oxysporum, Fusarium solani, Phytophthora spp., Pythium spp, Rhizoctonia solani, Sclerotinia sclerotiorum, Verticillium albo-atrum, Verticillium dahlia	BCRDS	2 g	3-5 day	
Cannabis Virus Disease Scan				
Alfalfa mosaic virus (AMV), Arabis mosaic virus (ArMV), Cucumber mosaic virus (CMV), Tobacco mosaic virus (TMV), Tobacco streak virus (TSV), Tomato bushy stunt virus (TBSV)	BCVDS	2 g	3-5 day	
Cannabis Virus Tests				
Bromoviridae (BBROM), Closteroviridae (BCLOST), Comovirinae (BCOMO), Luteoviridae (BLUTEO), Potyviridae (BPOTY), Ilarvirus (BILAR), Fabavirus (BFABA), Nepovirus (BNEPO), Begomovirus (BBEGO), Curtovirus (BCURTO), Potexvirus (BPOTEX), Tobamovirus (BTOBAM), Tombusvirus (BTOMBUS), Tospovirus (BTOSPO), Trichovirus (BTRICHO) 15 Virus Groups – PCR	BVIRUS	2 g	5-7 day	each
Cannabis Other Pathogen Tests				
Hemp Streak Virus/Cannabis Cryptic Virus	BCANCV	2 g	3-5 day	
Phytoplasma - PCR	BPPZ910MM	2 g	3-5 day	
Lettuce Chlorosis Virus (LCV)	BLCV	2 g	3-5 day	
Hop Latent Viroid (HLVd)	BVHLVD	2 g	3 day	
Beet Curly Top Virus	VBCTV	2 g	3-5 day	
Powdery Mildew	BCPM	2 g	3-5 day	
Downey Mildew	BPPC910MM	2 g	3-5 day	
We are the Canadian Agdia dealer for supply test kits see www.agdia.com order through www.alcanada.com or clientcarecannabis@alcanada.com				



CANNABIS DISEASE DIAGNOSTICS

CANNABIS DISEASE DIAGNOSTICS

ANALYSIS (Continued...)	CODE	AMOUNT	TAT	
Waterborne Plant Pathogen Analysis Package				
<i>Fusarium</i> spp., <i>Fusarium oxysporium</i> , <i>Fusarium solani</i> , <i>Pythium</i> spp., <i>Verticillium albo-atrum</i> , <i>Verticillium dahliae</i>	BWBD	200 mL	3-5 day	
Soilborne Plant Pathogen Analysis Package				
<i>Botrytis cinerea</i> , <i>Colletotrichum coccodes</i> , <i>Fusarium</i> spp., <i>Fusarium oxysporum</i> , <i>Fusarium solani</i> , <i>Phytophthora</i> spp., <i>Pythium</i> spp., <i>Rhizoctonia solani</i> , <i>Sclerotinia sclerotiorum</i> , <i>Verticillium albo-atrum</i> , <i>Verticillium dahlia</i>	BSPPMM	25 g	3-5 day	

WANTED

YIELD ROBBER

Cannabis production faces risk from over 20 different bacterial and viral diseases

CONTACT:  **PLANT DISEASE DIAGNOSTICS (PDD)** www.pdd.alcanada.com



CANNABIS DISEASE DIAGNOSTICS

CANNABIS PCR and NGS DIAGNOSTICS

Cannabis Genetic Testing	CODE	AMOUNT	TAT	
Sex identification (male/female) of Cannabis plants at early developmental stage				
1 to 10 samples/submission	BCMFMM	1 small	3-5 day	
11 to 30	BCMF10MM	dime		
31 to 100	BCMF30MM	size		
100 +	BCMF100MM	leaf		
Identification of THC predominant and intermediate plants.	BCTHCM	1 gram	3-5 day	
Cannabis genotyping		5 g	4-6 week	inquire
Identification of all Bacterial or Mold Species				
Identification by “NGS”				
Next Generation Sequencing				
Identify unknown bacterial and/or mold species of major populations in finished cannabis products, soil/media or swabs by DNA sequence analysis. Analysis provides assessment of major bacteria and/or mold communities All species identified and quantified				
1 sample	BNGSM1	10 g	10 day	
2 to 5 samples/submission	BNGSM2			
6 to 9 samples	BNGSM3			
10 to 40 samples	BNGSM4			
41 to 96 samples	BNGSM5			
Bacterial/Mold Species Identification by PCR and sequencing				
Identify unknown bacterial and/or mold species of major populations in finished cannabis products, soil/media or swabs by DNA sequence analysis. “Up to” Top 3 or 5 species				
Top 3 bacterial species	BTOP3B	10 g	10 day	
Top 3 mold species	BTOP3M			
Top 5 bacterial species	BTOP5B			
Top 5 mold species	BTOP5M			



A&L LABS ADDITIONAL SERVICES FOR CANNABIS PRODUCTION

ANALYSIS	Code	Amount	TAT	
1. Water/Fertigation Solution – Greenhouse Complete Package				
Nitrogen: Ammonia-N, Nitrate-N Minerals: Aluminum, Boron, Calcium, Copper, Chloride, Iron, Magnesium, Manganese, Molybdenum, Phosphorus, Phosphorus (as H ₂ PO ₄), Potassium, Sodium, Sulphur (as SO ₄), Silicon, Zinc Chemical: Total Dissolved Solids, pH, pHc, Bicarbonate, Carbonate, Total Alkalinity Conductivity, Hardness, Anion Sum, Cation Sum, Residual Sodium Carbonate, SAR, Adjusted SAR, Saturation Index	WGC	500mL	1 day	
Total Suspended Solids:	GSSW245	Included	1 day	
Microbiological Scan: Heterotrophic Plate Count, Total Coliform, <i>E. coli</i> , <i>Salmonella</i> spp., Total Yeast & Mold, Bile Tolerant Gram Neg. Bacteria, <i>Staphylococcus aureus</i> , <i>Pseudomonas aeruginosa</i>	MICROWMM	500 mL	5 day	
2. Plant Tissue Nutrient Analysis Package				
Total Nitrogen, Nitrate Nitrogen, Phosphorus, Magnesium, Potassium, Calcium, Sulfur, Sodium, Boron, Copper, Iron, Manganese, Zinc, Aluminum ** 2 cups loosely packed most recent mature leaf**	PT2MMR	15-20 g	1 day	
PMP-Plant Monitoring Program “A graphical report of plant tissue nutrient analysis” through the growing stages				
Chloride	ICLW030	Included	1 day	
Silicon	PSI	Included	1 day	
Molybdenum	PMO	Included	1 day	
3. Growing Media Packages				
Media Analysis - Total Nitrogen, Nitrate (NO ₃ -N), Available Organic Matter, pH, Lime index, Conductivity, C:N Ratio, Moisture – using Mild Acid extraction Soil extractable minerals: Phosphorus, Potassium, Magnesium, Calcium, Sulfur, Boron, Zinc, Copper, Iron, Manganese, Sodium, Aluminum	S8C	600 g	3 day	
Media Analysis – pH, Nitrate (NO ₃ -N), Ammonium (NH ₄ -N) E.C - Phosphorus, Potassium, Magnesium, Calcium, Sulfur, Boron, Zinc, Copper, Iron, Manganese, Sodium, Aluminum, Chloride, Molybdenum – Saturated Paste Extraction *Rockwool/Sand*	S9B	600 g	3 day	
Molybdenum	SMO	Included	3 day	
Silicon	SSI	Included	3 day	
4. Complete Bud Nutrient Test Package				
Total Nitrogen, Nitrate Nitrogen, Phosphorus, Magnesium, Potassium, Calcium, Sulfur, Sodium, Boron, Copper, Iron, Manganese, Zinc, Aluminum				



5. Soil Test Packages				
	Complete Soil Test Package Organic matter, Phosphorus (sodium bicarb and bray 1), Potassium, magnesium, calcium, sodium, (ammonium acetate), Soil pH, aluminum, saturation of cation elements including sodium, Calculated C.E.C. saturation %P, %K. Mg ratio + Zinc, Manganese, Boron, Iron, Copper, Sulphur	S1B+S7	600 g	5 day
	Vitellus Bio -Soil Health Test & report OM, pH, BpH, P, K, Mg, Ca, Na, S, B, Cu, Mn, Fe, Zn, Al, CEC, % saturation of cations, K:Mg, EC, %P, %AL, Solvita CO2-C, PMN, Active C, Soil Health Index <i>"Your Living Soil Test"</i>		SHTEST3	1200 g
6. Fertilizer Analysis				
Fertilizer Analysis				inquire
7. Biologicals				
Biologicals – Library of over 4500 Microbes to help you grow				inquire
8. Research and Development				
Cannabis Research and Development – Biora Growth Chamber				inquire
9. Precision Agriculture Services				
	Imagery services for plant monitoring and disease prediction using drones			inquire
	Precision Agriculture Site Specific Soil sampling of field for Outdoor Grow			inquire
10. Software - Seed-to-Sale Production, Traceability & Compliance				
Software, CTLS reporting				
	ALCannTrace™ – Production Software: Seed to Sale Cloud Based, Software: Cultivation, CTLS Reporting Feature, QA/QC Compliance, Lab Reports, Inventory, Schedule Tasks, Manage Labour			inquire



TERMS & CONDITIONS

- Quotation is valid for 30 days from date of Quotation
- COD – Reports are not released until fully paid, unless previously arranged
- 2 % Prepay discount available
- no discounts on water, plant nutrient, soil & media or supplies
- Customer Service email: clientcarecannabis@alcanada.com
- Accounting department email: ardept@alcanada.com
- Cannabis website: www.alcannabislabs.com
- Twitter: @alcannabislabs
- Retest fee may apply
- Cancellation Policy for Microbiology Testing PLEASE NOTE: For Microbiology testing of Cannabis samples, cancellation of analytical services is permitted up to 24 hours after sample log in. Cancellation of testing after the 24 hours will result in full charges being applied for the analytical package requested.

Complete Validations / Research & Development - Inquire

APPENDIX

	Minimum Sample Size in Grams (g)		
	DRY FLOWER	OIL	DISTILLATE
Cannabinoid Profile	3 g	2 g	0.5 g
Pesticides	3 g	3 g	0.5 g
Terpenes	3 g	2 g	0.5 g
Aflatoxins	2 g	2 g	1 g
Residual Solvents	-	0.5 g	0.5 g
Heavy Metals	1 g	0.5 g	0.5 g
Microbials	15 g	12-17 g	5-12 g
Moisture (LOD)	3 g	-	-
Visual Inspection – Foreign Matter (add 10g)	10 g	10 g	Inquire
Health Canada Regulated Product Package	40 g	35 g	18-20 g