



Populum Lavender Oil 250 mg Batch 20252176

Populum

Test Result UID: ANL0039267

Lot Inventory ID:

Lab Inventory ID:

Date Tested: 10/16/2020

Serving Size: 1 Bottle (30 ml) = 29.268 g



Summary

254.41 mg/s Total Cannabinoids	Pass Microbial	Pass Mycotoxins	Pass Residual Solvents	Pass Pesticides	Pass Heavy Metals
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Cannabinoids

Testing method: HPLC-SOP 0011

Analyte	LOD	LOQ	Mass	Mass
Δ9-THC-A	0.000 mg/g	0.001 mg/g	0.006 mg/g	0.163 mg/s
Δ9-THC	0.000 mg/g	0.001 mg/g	0.169 mg/g	4.943 mg/s
Δ9-THCV	0.000 mg/g	0.001 mg/g	ND mg/g	ND mg/s
Δ8-THC	0.000 mg/g	0.001 mg/g	ND mg/g	ND mg/s
CBN	0.000 mg/g	0.001 mg/g	ND mg/g	ND mg/s
CBD-A	0.000 mg/g	0.001 mg/g	ND mg/g	ND mg/s
CBD	0.000 mg/g	0.001 mg/g	8.410 mg/g	246.150 mg/s
CBDV-A	0.000 mg/g	0.001 mg/g	0.082 mg/g	2.390 mg/s
CBDV	0.000 mg/g	0.001 mg/g	ND mg/g	ND mg/s
CBG-A	0.000 mg/g	0.001 mg/g	ND mg/g	ND mg/s
CBG	0.000 mg/g	0.001 mg/g	0.026 mg/g	0.765 mg/s
CBC	0.000 mg/g	0.001 mg/g	ND mg/g	ND mg/s

Terpenes

Testing method: HSGCFID-SOP 0030

Analyte	LOD	LOQ	Mass	Mass
α-Pinene	0.00 mg/g	0.01 mg/g	ND mg/g	ND mg/s
β-Pinene	0.00 mg/g	0.01 mg/g	ND mg/g	ND mg/s
Myrcene	0.00 mg/g	0.01 mg/g	ND mg/g	ND mg/s
Ocimene	0.00 mg/g	0.01 mg/g	NT	NT
Limonene	0.00 mg/g	0.01 mg/g	0.22 mg/g	6.52 mg/s
Terpinolene	0.00 mg/g	0.01 mg/g	ND mg/g	ND mg/s
Linalool	0.00 mg/g	0.01 mg/g	0.98 mg/g	28.63 mg/s
Caryophyllene	0.00 mg/g	0.01 mg/g	0.11 mg/g	3.13 mg/s
Humulene	0.00 mg/g	0.01 mg/g	ND mg/g	ND mg/s

5.09 mg/s
Total THC

246.15 mg/s
Total CBD

38.27 mg/s
Total Terpenes

Total THC = Δ9-THC-A * 0.877 + Δ9-THC
Total CBD = CBD-A * 0.877 + CBD
LOQ = Limit of Quantification; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected

The values reported pertain only to the product tested.

Not Tested Moisture SOP-0009	Not Tested Water Activity SOP-0053	Not Tested Foreign Matter SOP-0010
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Analytical 360, LLC certifies that the results presented are true and correct to the best of our knowledge. These results relate only to the sample provided by the client to Analytical 360, LLC.

Reference Lab

Analytical 360, LLC subcontracts the following assays:
Mycotoxins, Terpenes, and Pesticides performed by Praxis Laboratory (WSLCB Lab #0020)
Pesticides and Heavy Metals performed by Medicine Creek Analytics (WSLCB Lab #0018)

Approved By

Paul D. Matthews, Ph.D.

Paul Matthews, Ph.D.
Executive Lab Director / Chief Science Officer



Lavender Oil 1020

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Date Tested: 10/16/2020

Microbial Testing method: PLATE-SOP 0007

Analyte	LOD	LOQ	Action Level	Mass	Status
Enterobacteria	20 CFU/g	85 CFU/g	1000 CFU/g	ND CFU/g	Pass
Salmonella spp.	-	-	Any Detected in 1 g		Pass
Escherichia coli	-	-	Any Detected in 1 g		Pass
Total Aerobic Bacteria	170 CFU/g	850 CFU/g	No Limit	NT	
Total Yeast and Mold	170 CFU/g	850 CFU/g	No Limit	NT	
Total Coliforms	20 CFU/g	85 CFU/g	No Limit	NT	

Mycotoxins Testing method: ELISA-SOP 0054

Analyte	LOD	LOQ	Action Level	Mass	Status
Aflatoxins B1, B2, G1, G2	0.1 ppb	1.0 ppb	20 ppb	ND ppb	Pass
Ochratoxin A	0.1 ppb	1.0 ppb	20 ppb	ND ppb	Pass

Heavy Metals Testing method: ICPMS-SOP 0055

Analyte	LOD	LOQ	Action Level	Mass	Status
Arsenic	0.02 ug/5g	0.06 ug/5g	10 ug/5g	ND ug/5g	Pass
Cadmium	0.01 ug/5g	0.04 ug/5g	4.1 ug/5g	ND ug/5g	Pass
Lead	0.01 ug/5g	0.02 ug/5g	6 ug/5g	ND ug/5g	Pass
Mercury	0.02 ug/5g	0.07 ug/5g	2 ug/5g	ND ug/5g	Pass

Washington State I-502 Recreational Marijuana Microbial / Mycotoxins Action Levels

Counts not to exceed:

- 1,000 CFU/g Enterobacteria for solvent extracts and edibles
- 10,000 CFU/g Enterobacteria for flower, hash and kief
- *E coli* and *Salmonella* **not detected** in one gram for all products
- 20 ppb for Aflatoxins B1, B2, G1, G2, and Ochratoxin A for all products

LOQ = Limit of Quantification; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected
CFU/g = Colony Forming Units Per Gram; ppm = Parts per Million; ppb = Parts per Billion
TNTC = Too Numerous To Count

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Pass
Microbial

Pass
Mycotoxins

Pass
Heavy Metals



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Residual Solvents Testing method: HSGCFID-SOP 0020

Analyte	LOD	LOQ	Action Level	Mass
Propane	1 ppm	20 ppm	5000 ppm	ND ppm
Isobutane	1 ppm	20 ppm	5000 ppm	ND ppm
Butane	1 ppm	20 ppm	5000 ppm	ND ppm
Ethanol	1 ppm	20 ppm	No Limit	NT
Acetone	1 ppm	20 ppm	5000 ppm	ND ppm
Toluene	1 ppm	20 ppm	890 ppm	ND ppm
Pentane	1 ppm	20 ppm	5000 ppm	ND ppm
Isopropanol	1 ppm	20 ppm	5000 ppm	ND ppm
Hexane	1 ppm	20 ppm	290 ppm	ND ppm
Heptane	1 ppm	20 ppm	5000 ppm	ND ppm
Isopentane	1 ppm	20 ppm	5000 ppm	ND ppm
Tetrahydrofuran	1 ppm	20 ppm	720 ppm	ND ppm
Methanol	1 ppm	20 ppm	3000 ppm	ND ppm
Acetonitrile	1 ppm	20 ppm	410 ppm	ND ppm
Dichloromethane	1 ppm	20 ppm	600 ppm	ND ppm
Ethyl Acetate	1 ppm	20 ppm	5000 ppm	ND ppm
Chloroform	1 ppm	2 ppm	2 ppm	ND ppm
Cyclohexane	1 ppm	20 ppm	3900 ppm	ND ppm
Benzene	1 ppm	2 ppm	2 ppm	ND ppm
Ethyl Benzene	1 ppm	20 ppm	2200 ppm	ND ppm
m + p Xylenes	1 ppm	20 ppm	2200 ppm	ND ppm
o Xylene	1 ppm	20 ppm	2200 ppm	ND ppm
Total Xylenes	1 ppm	20 ppm	2200 ppm	ND ppm

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ppm = Parts Per Million

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ND ppm
Total Solvents



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Pesticides Testing method: LCMS-SOP 0055

Analyte	LOD	LOQ	Mass	Action Level	Analyte	LOD	LOQ	Mass	Action Level
	ppm	ppm		ppm		ppm	ppm		ppm
Avermectin B1a	0.009	0.02	ND ppm		Malathion	0.01	0.02	ND ppm	0.20
Avermectin B1b	0.006	0.02	ND ppm		Metalaxyl	0.01	0.10	ND ppm	0.20
Abamectin Total			ND ppm	0.50	Methiocarb	0.01	0.10	ND ppm	0.20
Acephate	0.01	0.10	ND ppm	0.40	Methomyl	0.01	0.10	ND ppm	0.40
Acequinocyl	0.01	0.10	ND ppm	2.00	Methylparathion	0.02	0.10	ND ppm	0.20
Acetamiprid	0.01	0.02	ND ppm	0.20	MGK 264 Isomer1	0.009	0.09	ND ppm	
Aldicarb	0.01	0.02	ND ppm	0.40	MGK 264 Isomer1	0.001	0.01	ND ppm	
Azoxystrobin	0.01	0.10	ND ppm	0.20	MGK-264 Total			ND ppm	0.20
Bifenazate	0.01	0.02	ND ppm	0.20	Myclobutanil	0.01	0.02	ND ppm	0.20
Bifenthrin	0.01	0.02	ND ppm	0.20	Naled	0.01	0.02	ND ppm	0.50
Boscalid	0.01	0.02	ND ppm	0.40	Oxamyl	0.01	0.02	ND ppm	1.00
Carbaryl	0.01	0.02	ND ppm	0.20	Paclobutrazol	0.01	0.02	ND ppm	0.40
Carbofuran	0.01	0.10	ND ppm	0.20	Permethrin Cis	0.004	0.04	ND ppm	
Chlorantraniliprole	0.01	0.10	ND ppm	0.20	Permethrin Trans	0.006	0.06	ND ppm	
Chlorfenapyr	0.02	0.40	ND ppm	1.00	Permethrins Total			ND ppm	0.20
Chlorpyrifos	0.01	0.02	ND ppm	0.20	Phosmet	0.01	0.02	ND ppm	0.20
Clofentezine	0.01	0.10	ND ppm	0.20	Piperonyl butoxide	0.01	0.02	ND ppm	2.00
Cyfluthrin	0.10	0.10	ND ppm	1.00	Prallethrin	0.01	0.10	ND ppm	0.20
Cypermethrin	0.10	0.20	ND ppm	1.00	Propiconazole	0.01	0.02	ND ppm	0.40
Daminozide	0.02	0.10	ND ppm	1.00	Propoxur	0.01	0.02	ND ppm	0.20
DDVP (Dichlorvos)	0.01	0.02	ND ppm	0.10	Pyrethrins Cinerin	0.0006	0.001	ND ppm	
Diazinon	0.01	0.02	ND ppm	0.20	Pyrethrins Jasmolin	0.0004	0.004	ND ppm	
Dimethoate	0.01	0.10	ND ppm	0.20	Pyrethrins Pyrethrin	0.006	0.06	ND ppm	
Ethoprophos	0.01	0.02	ND ppm	0.20	Pyrethrins Total			ND ppm	1.00
Etofenprox	0.01	0.02	ND ppm	0.40	Pyridaben	0.01	0.02	ND ppm	0.20
Etoxazole	0.01	0.02	ND ppm	0.20	Spinosyn A	0.006	0.01	ND ppm	
Fenoxycarb	0.01	0.10	ND ppm	0.20	Spinosyn D	0.004	0.009	ND ppm	
Fenpyroximate	0.01	0.10	ND ppm	0.40	Spinosad Total			ND ppm	0.20
Fipronil	0.01	0.02	ND ppm	0.40	Spiromesifen	0.01	0.02	ND ppm	0.20
Flonicamid	0.01	0.10	ND ppm	1.00	Spirotetramat	0.01	0.02	ND ppm	0.20
Fludioxonil	0.01	0.02	ND ppm	0.40	Spiroxamine	0.01	0.02	ND ppm	0.40
Hexythiazox	0.01	0.01	ND ppm	1.00	Tebuconazole	0.01	0.02	ND ppm	0.40
Imazalil	0.01	0.02	ND ppm	0.20	Thiacloprid	0.01	0.02	ND ppm	0.20
Imidacloprid	0.01	0.10	ND ppm	0.40	Thiamethoxam	0.01	0.02	ND ppm	0.20
Kresoxim-methyl	0.01	0.02	ND ppm	0.40	Trifloxystrobin	0.01	0.02	ND ppm	0.20

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Pass
Pesticides



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