



Bluebird Botanicals Hemp Complete

Ministry of Hemp

Test Result UID: ANL0025071

Lot Inventory ID:

Lab Inventory ID:

Date Tested: 07/19/2019

Serving Size: =



Summary

-- Total Cannabinoids	Pass Microbial	Pass Mycotoxins	ND ppm Residual Solvents	Not Tested Pesticides	Not Tested 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	ND mg/g	--
Δ9-THC	0.000 mg/g	0.001 mg/g	ND mg/g	--
Δ9-THCV	0.000 mg/g	0.001 mg/g	ND mg/g	--
Δ8-THC	0.000 mg/g	0.001 mg/g	ND mg/g	--
CBN	0.000 mg/g	0.001 mg/g	ND mg/g	--
CBD-A	0.000 mg/g	0.001 mg/g	27.645 mg/g	--
CBD	0.000 mg/g	0.001 mg/g	28.878 mg/g	--
CBDV-A	0.000 mg/g	0.001 mg/g	ND mg/g	--
CBDV	0.000 mg/g	0.001 mg/g	ND mg/g	--
CBG-A	0.000 mg/g	0.001 mg/g	ND mg/g	--
CBG	0.000 mg/g	0.001 mg/g	ND mg/g	--
CBC	0.000 mg/g	0.001 mg/g	ND mg/g	--

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Total THC

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Total CBD

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.

Terpenes

Testing method: HSGCFID-SOP 0030

Analyte	LOD	LOQ	Mass	Mass
α-Pinene	0.00 mg/g	0.01 mg/g	0.56 mg/g	--
β-Pinene	0.00 mg/g	0.01 mg/g	0.27 mg/g	--
Myrcene	0.00 mg/g	0.01 mg/g	2.35 mg/g	--
Ocimene	0.00 mg/g	0.01 mg/g	0.27 mg/g	--
Limonene	0.00 mg/g	0.01 mg/g	0.38 mg/g	--
Terpinolene	0.00 mg/g	0.01 mg/g	0.44 mg/g	--
Linalool	0.00 mg/g	0.01 mg/g	ND mg/g	--
Caryophyllene	0.00 mg/g	0.01 mg/g	1.74 mg/g	--
Humulene	0.00 mg/g	0.01 mg/g	1.41 mg/g	--

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Total Terpenes

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 performed by Capitol Analysis (WSLCB Lab #0022)
Pesticides and Heavy Metals performed by Medicine Creek Analytics (WSLCB Lab #0018)

Approved By

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



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Microbial Testing method: PLATE-SOP 0007

Analyte	LOD	LOQ	Action Level	Mass	Status
Bile-Tolerant Gram Negative Bacteria	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	ND CFU/g	
Total Yeast and Mold	170 CFU/g	850 CFU/g	No Limit	ND CFU/g	
Total Coliforms	20 CFU/g	85 CFU/g	No Limit	ND CFU/g	

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	2.2 ppb	Pass
Ochratoxin A	0.1 ppb	1.0 ppb	20 ppb	3.5 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	NT	NT
Cadmium	0.01 ug/5g	0.04 ug/5g	4.1 ug/5g	NT	NT
Lead	0.01 ug/5g	0.02 ug/5g	6 ug/5g	NT	NT
Mercury	0.02 ug/5g	0.07 ug/5g	2 ug/5g	NT	NT

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

Counts not to exceed:

- 1,000 CFU/g Bile-Tolerant Gram Negative Bacteria for solvent extracts and edibles
- 10,000 CFU/g Bile-Tolerant Gram Negative Bacteria 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

The values reported pertain only to the product tested.

Pass
Microbial

Pass
Mycotoxins

Not Tested
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

LOQ = Limit of Quantification; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected
ppm = Parts Per Million

The values reported pertain only to the product tested.

ND ppm
Total Solvents



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