

Certificate of Analysis

Company: Old Growth Vermont	Sample ID: Black Lightning	Report Date: 11/28/2022
	Lot: N/A	
	Matrix: Flower	Date Analyzed: 11/23/2022
Customer ID: 221024-2	Date Sampled: N/A	Analyst: 011
Grower License #: CLTV0058	Date Received: 11/4/2022	Report ID: C221104CG

Cannabinoid Summary

Cannabinoid Profile	LOQ (mg/g)	Concentration (mg/g)	Weight (%)
CBDVA	0.0005	<LOQ	<LOQ
CBDV	0.0012	<LOQ	<LOQ
CBDA	0.0008	0.91	0.09
CBGA	0.0008	15.24	1.52
CBG	0.0019	<LOQ	<LOQ
CBD	0.0019	<LOQ	<LOQ
THCV	0.0021	<LOQ	<LOQ
CBN	0.0013	<LOQ	<LOQ
Δ9-THC	0.0020	5.36	0.54
Δ8-THC	0.0019	<LOQ	<LOQ
THC-A	0.0034	239.26	23.93
CBC	0.0024	1.03	0.10
Total THC		215.19	21.52
Total CBD		0.79	0.08
Total Cannabinoids		261.79	26.18

21.52%	0.08%
Total THC	Total CBD

26.18%	0.54%
Total Cannabinoids	Δ9-THC

11.92%	1 : 0
Percent Moisture	THC : CBD Ratio

Cannabinoids Methodology: High Performance Liquid Chromatography (HPLC) using PerkinElmer FLEXAR™ with Photo Diode Array Detector (PDA)

Total CBD and total THC are calculated values, to account for assumed decarboxylation from the acid form (THCA or CBDA) to the neutral form, causing weight loss of the acid group. These values are calculated as follows:
 Total THC = (THCA x 0.877) + Δ9-THC Total CBD = (CBDA x 0.877) + CBD
 Ratio of Total CBD: Total THC Reagent Blanks: < LOQs for all analytes

LOQ = The lowest quantity that this method can reliably detect. Any cannabinoid that was not detected is assumed to be less than the stated LOQ (<LOQ).

All results reflect dry weight of material, based on % moisture of the sample.

Measurement of Uncertainty (MU): the parameter, associated with the result of a measurement, that characterizes the dispersion of the values that could reasonably be attributed to the particular quantity subject to measurement.
 Δ9-THC MU = ±0.005% Total THC MU = ±0.007%

All other cannabinoid MU values are available upon request.

All moisture analysis is determined by loss-on-drying measurement using OHAUS Model MB90 Moisture Content Readers.



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Certified by: Luke E. M.
 Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

Certificate of Analysis

Company: Old Growth Vermont	Sample ID: Black Lightning	Report Date: 12/1/2022
	Lot: N/A	
	Matrix: Flower	Date Analyzed: 11/29/2022
Customer ID: 221024-2	Date Sampled: N/A	Analyst: 035
Grower License #: CLTV0058	Date Received: 11/4/2022	Report ID: C221104CG

Terpenes Summary

Terpene	LOQ (mg/g)	Results (mg/g)	Weight (%)
α - Pinene	0.010	0.851	0.085
Camphene	0.010	0.198	0.020
β -Myrcene	0.010	2.607	0.261
b-Pinene	0.010	1.478	0.148
3-Carene	0.010	<LOQ	<LOQ
α -Terpinene	0.010	<LOQ	<LOQ
Limonene	0.010	4.442	0.444
p-Cymene	0.010	<LOQ	<LOQ
Ocimene	0.010	<LOQ	<LOQ
Eucalyptol	0.010	<LOQ	<LOQ
γ -Terpinene	0.010	0.012	0.001
Terpinolene	0.010	0.475	0.048
Linalool	0.010	2.519	0.252
Isopulegol	0.010	<LOQ	<LOQ
Geraniol	0.010	<LOQ	<LOQ
Caryophyllene	0.010	5.273	0.527
α -Humulene	0.010	2.359	0.236
Trans-Nerolidol	0.010	<LOQ	<LOQ
Cis-Nerolidol	0.010	<LOQ	<LOQ
Guaiol	0.010	<LOQ	<LOQ
Caryophyllene Oxide	0.010	0.017	0.002
α -Bisabolol	0.010	<LOQ	<LOQ
Total Terpenes		20.231	2.024

11.92%

**Percent
Moisture**

LOQ = The lowest quantity this method can reliably detect. Any terpene that was not detected is assumed to be less than the stated LOQ (<LOQ).

Terpene Methodology: Headspace Sampler, Gas Chromatography-Mass Spectrometry (GC-MS), using Perkin Elmer Clarus® SQ8 GC MS

Reagent Blanks: < LOQs for all analytes

All results reflect dry weight of material, based on % moisture of the sample.

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Certificate of Analysis

Company: Old Growth Vermont

Sample ID: Harvest Lot

Lot: CLTV0058-001

Report Date: 11/30/2022

Matrix: Flower

Date Analyzed: 11/30/2022

Customer ID: 221024-2

Date Sampled: N/A

Analyst: 018

Grower License #: CLTV0058

Date Received: 11/4/2022

Report ID: C221104CM

Pathogen Summary

Target Pathogens	Method	LOD (cfu/g)	Result (cfu/g)
Aspergillus - flavus, fumigatus, niger, terreus	Aspergillus AOAC PTM No. 032104	5	<LOD
STEC	STEC Virx AOAC PTM No. 121203	5	<LOD
Salmonella spp.	Salmonella II AOAC PTM No. 010803	5	<LOD



Test Methodology: Bio-Rad IQ-Check PCR Kits

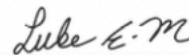
cfu/g = colony forming units per gram

LOD = The lowest quantity that this method can reliably detect. Any microbial growth that was not detected is assumed to be less than the stated LOD (<LOD).

Reagent Blanks: <LOD for all analytes

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Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

Certificate of Analysis

Company: Old Growth Vermont	Sample ID: Harvest Lot	Report Date: 12/8/2022
	Lot: CLTV0058-001	Date Analyzed: 12/1/2022
Customer ID: 221024-2	Matrix: Flower	Analyst: 045
Grower License #: CLTV0058	Date Sampled: N/A	Report ID: C221104CM
	Date Received: 11/4/2022	

Pesticides/Mycotoxins Summary

Category II Residual Pesticide	LOQ (ppm)	Concentration (ppm)
Abamectin	0.0100	<LOQ
Acephate	0.0010	<LOQ
Acequinocyl	0.0010	<LOQ
Azoxystrobin	0.0010	<LOQ
Bifenazate	0.0010	<LOQ
Bifenthrin	0.0010	<LOQ
Carbaryl	0.0010	<LOQ
Cypermethrin	0.0100	<LOQ
Etoxazole	0.0010	<LOQ
Imidacloprid	0.0010	<LOQ
Myclobutanil	0.0010	<LOQ
Pyrethrin I	0.0010	<LOQ
Pyrethrin II	0.0010	<LOQ
Spinosyn A	0.0010	<LOQ
Spinosyn D	0.0010	<LOQ

Category II Mycotoxin	LOQ (ppm)	Concentration (ppm)
Ochratoxin A	0.0020	NOT TESTED
Aflatoxin B1	0.0002	NOT TESTED
Alfatoxin B2	0.0010	NOT TESTED
Alfatoxin G1	0.0002	NOT TESTED
Alfatoxin G2	0.0010	NOT TESTED

Category I Residual Pesticide	LOQ (ppm)	Concentration (ppm)
Chlorpyrifos	0.0010	<LOQ
Imazalil	0.0010	<LOQ

12.54%

**Percent
Moisture**



LOQ = The lowest quantity this method can reliably detect. Any pesticide or mycotoxins that was not detected is assumed to be less than the stated LOQ (<LOQ).

All results reflect dry weight of material, based on % moisture of the sample.

ppb = parts per billion

Pesticides/Mycotoxin Methodology: Liquid Chromatography with Tandem Mass Spectrometry using PerkinElme QSight® LX50 UHPLC and QSight 220 Mass Spectrometer

All moisture analysis is determined by loss-on-drying measurement using OHAUS Model MB90 Moisture Content Readers.

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