

Hunza Valley 91

 Sample ID: BIA241107S0022
 Strain: Hunza Valley 91

 Produced:
 Collected:
 Received: 11/07/2024
 Completed: 11/15/2024
 Batch#: PL-CLTV0058-12-1

 Client
Old Growth Vermont
 Lic. # CLTV0058
 1057 BRUCE BADGER MEMORIAL HWY
 DANVILLE, VT 05828

 Matrix: Plant
 Type: Flower - Cured
 Sample Size: 2.32 g
 Lot#: PL-CLTV0058-12-1


Summary

Test	Date Tested	Result
Sample		Complete
Cannabinoids	11/11/2024	Complete
Moisture	11/08/2024	11.30% - Complete
Water Activity	11/08/2024	0.564 aw - Complete
Terpenes	11/08/2024	Complete
Microbials	11/15/2024	Complete

Cannabinoids

Completed

14.95% Total THC	0.04% Total CBD	18.86% Total Cannabinoids
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Analyte	LOQ	Results	Results	Mass
	mg/g	%	mg/g	mg/serving
CBDVa	0.0005	<LOQ	<LOQ	
CBDV	0.0012	<LOQ	<LOQ	
CBDa	0.0008	0.05	0.5	
CBGa	0.0008	1.72	17.2	
CBG	0.0019	0.09	0.9	
CBD	0.0019	<LOQ	<LOQ	
THCV	0.0021	<LOQ	<LOQ	
CBN	0.0013	<LOQ	<LOQ	
Δ9-THC	0.0020	0.33	3.3	
Δ8-THC	0.0019	<LOQ	<LOQ	
Δ10-THC	0.0002	<LOQ	<LOQ	
CBC	0.0024	<LOQ	<LOQ	
THCa	0.0034	16.68	166.8	
Total THC		14.95	149.54	
Total CBD		0.04	0.41	
Total		18.86	188.61	0.00

Analyst: 056

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:

$$\text{Total THC} = (\text{THCA} \times 0.877) + \Delta 9\text{-THC}$$

$$\text{Total CBD} = (\text{CBDA} \times 0.877) + \text{CBD Reagent}$$

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 and water activity analysis is determined by dewpoint measurement using an AQUALAB water activity meter.




 Luke Emerson-Mason
 Laboratory Director
 11/15/2024

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Terpenes

Completed

Analyte	LOQ	Results	Results
	mg/g	mg/g	%
Limonene	0.010	5.640	0.564
β-Myrcene	0.010	5.468	0.547
Ocimene	0.010	4.420	0.442
β-Caryophyllene	0.010	3.537	0.354
Linalool	0.010	1.525	0.152
α-Humulene	0.010	1.475	0.147
β-Pinene	0.010	1.290	0.129
Terpinolene	0.010	0.919	0.092
α-Pinene	0.010	0.583	0.058
Camphene	0.010	0.069	0.007
Guaiol	0.010	0.051	0.005
3-Carene	0.010	0.036	0.004
α-Bisabolol	0.010	0.035	0.004
α-Terpinene	0.010	0.025	0.002
γ-Terpinene	0.010	0.018	0.002
Caryophyllene Oxide	0.010	0.011	0.001
cis-Nerolidol	0.010	<LOQ	<LOQ
Eucalyptol	0.010	<LOQ	<LOQ
Geraniol	0.010	<LOQ	<LOQ
Isopulegol	0.010	<LOQ	<LOQ
p-Cymene	0.010	<LOQ	<LOQ
trans-Nerolidol	0.010	<LOQ	<LOQ
Total		25.103	2.510

Primary Aromas



Analyst: 048

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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Pathogens

Completed

Pathogens	LOD	Results
	CFU/g	CFU/g
Aspergillus	5	Not Detected
Shiga Toxin E. Coli	5	Not Detected
Salmonella SPP	5	Not Detected

Analyst: 049

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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Composite TCK, SV, QBL, CB, HV

Sample ID: BIA241107S0025
Strain: Topanga, Sangivo, Queen Lime, Cardi, Hunza
Matrix: Plant
Type: Flower - Cured
Sample Size:
Lot#: PL-CLTV0058-12-1

Produced:
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Pesticides

In Progress

Category 1 Pesticides	LOQ	Results
	PPM	PPM
Chlorpyrifos	0.0010	<LOQ
Imazalil	0.0010	<LOQ
Category 2 Pesticides	LOQ	Results
	PPM	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
Spinosyn A	0.0010	<LOQ
Spinosyn D	0.0010	<LOQ

Analyst: 056

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

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).

ppm = parts per million

All moisture and water activity analysis is determined by dewpoint measurement using an AQUALAB water activity meter.




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