

6.05

Sample ID: BIA241104S0004
 Strain: Black Garlic

Matrix: Plant
 Type: Flower - Cured
 Sample Size: 8.59 g
 Lot#:

Produced:
 Collected:
 Received: 11/04/2024
 Completed: 11/11/2024
 Batch#:

Client
Clovis LLC
 Lic. # CLTV0099
 506 Marcoux Rd
 Hyde Park, VT 05655



Summary

Test	Date Tested	Result
Sample		Complete
Cannabinoids	11/06/2024	Complete
Moisture	11/05/2024	9.60% - Complete
Water Activity	11/05/2024	0.476 aw - Complete
Terpenes	11/06/2024	Complete
Microbials	11/08/2024	Complete

Cannabinoids

Completed

14.97%		0.07%		18.04%	
Total THC		Total CBD		Total Cannabinoids	
Analyte	LOQ	Results	Results	Mass	
	mg/g	%	mg/g	mg/serving	
CBDVa	0.0005	<LOQ	<LOQ		
CBDV	0.0012	<LOQ	<LOQ		
CBDa	0.0008	0.08	0.8		
CBGa	0.0008	0.85	8.5		
CBG	0.0019	0.08	0.8		
CBD	0.0019	<LOQ	<LOQ		
THCV	0.0021	<LOQ	<LOQ		
CBN	0.0013	<LOQ	<LOQ		
Δ9-THC	0.0020	0.30	3.0		
Δ8-THC	0.0019	<LOQ	<LOQ		
Δ10-THC	0.0002	<LOQ	<LOQ		
CBC	0.0024	<LOQ	<LOQ		
THCa	0.0034	16.73	167.3		
Total THC		14.97	149.73		
Total CBD		0.07	0.69		
Total		18.04	180.37	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
 11/11/2024

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Terpenes

Completed

Analyte	LOQ	Results	Results
	mg/g	mg/g	%
Limonene	0.010	5.904	0.590
Ocimene	0.010	4.292	0.429
Linalool	0.010	2.906	0.291
β -Caryophyllene	0.010	1.987	0.199
β -Pinene	0.010	1.379	0.138
β -Myrcene	0.010	1.067	0.107
α -Pinene	0.010	0.766	0.077
α -Humulene	0.010	0.747	0.075
Camphene	0.010	0.185	0.018
Terpinolene	0.010	0.108	0.011
Eucalyptol	0.010	0.043	0.004
γ -Terpinene	0.010	0.016	0.002
α -Terpinene	0.010	0.016	0.002
α -Bisabolol	0.010	0.011	0.001
3-Carene	0.010	<LOQ	<LOQ
Caryophyllene Oxide	0.010	<LOQ	<LOQ
cis-Nerolidol	0.010	<LOQ	<LOQ
Geraniol	0.010	<LOQ	<LOQ
Guaiol	0.010	<LOQ	<LOQ
Isopulegol	0.010	<LOQ	<LOQ
p-Cymene	0.010	<LOQ	<LOQ
trans-Nerolidol	0.010	<LOQ	<LOQ
Total		19.426	1.943

Primary Aromas

 Orange	 Earthy	 Lavender	 Cinnamon	 Pine
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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.

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




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Pathogens

Completed

Pathogens	LOD CFU/g	Results 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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