

## 24-A

Sample ID: BIA241202S0003  
Strain: Lemon Cosmos

Produced:  
Collected:  
Received: 12/02/2024  
Completed: 12/05/2024  
Batch#:

Client  
**High Altitude Cannabis**  
Lic. # SCLT0162  
313 Kate Brook Rd  
Hardwick, VT 05483

Matrix: Plant  
Type: Flower - Cured  
Sample Size: 4.65 g  
Lot#:



### Summary

Test	Date Tested	Result
Sample		Complete
Cannabinoids	12/04/2024	Complete
Moisture	12/03/2024	10.20% - Complete
Water Activity	12/03/2024	0.503 aw - Complete
Terpenes	12/03/2024	Complete
Microbials	12/05/2024	Complete

### Cannabinoids

Completed

<b>22.29%</b> Total THC	<b>0.06%</b> Total CBD	<b>26.87%</b> 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	0.07	0.7	
CBGa	0.0008	1.35	13.5	
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	0.35	3.5	
Δ8-THC	0.0019	<LOQ	<LOQ	
Δ10-THC	0.0002	<LOQ	<LOQ	
CBC	0.0024	<LOQ	<LOQ	
THCa	0.0034	25.02	250.2	
<b>Total THC</b>		<b>22.29</b>	<b>222.91</b>	
<b>Total CBD</b>		<b>0.06</b>	<b>0.58</b>	
<b>Total</b>		<b>26.87</b>	<b>268.69</b>	<b>0.00</b>

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:

Total THC = (THCA x 0.877) + Δ9-THC

Total CBD = (CBDA x 0.877) + 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  
12/05/2024

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## Terpenes

Completed

Analyte	LOQ	Results	Results
	mg/g	mg/g	%
Ocimene	0.010	2.569	0.257
β-Myrcene	0.010	2.063	0.206
β-Caryophyllene	0.010	2.023	0.202
β-Pinene	0.010	1.834	0.183
Limonene	0.010	1.685	0.168
3-Carene	0.010	1.235	0.124
α-Pinene	0.010	1.207	0.121
Linalool	0.010	1.139	0.114
α-Humulene	0.010	0.822	0.082
α-Terpinene	0.010	0.467	0.047
γ-Terpinene	0.010	0.375	0.038
Eucalyptol	0.010	0.109	0.011
α-Bisabolol	0.010	0.084	0.008
Camphene	0.010	0.037	0.004
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
Terpinolene	0.010	<LOQ	<LOQ
trans-Nerolidol	0.010	<LOQ	<LOQ
<b>Total</b>		<b>15.650</b>	<b>1.565</b>

## Primary Aromas



Analyst: 045

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

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

Reagent Blanks: &lt; 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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 Laboratory Director  
 12/05/2024

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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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