

Gas Light

 Sample ID: BIA250723S0006
 Strain: 024

 Matrix: Plant
 Type: Flower - Cured
 Sample Size: 7.2 g
 Lot#:

 Produced:
 Collected:
 Received: 07/23/2025
 Completed: 07/31/2025
 Batch#:

 Client
The Flying Cactus
 Lic. #
 963 South Main Street
 Fair Haven, VT 05743


Summary

Test	Date Tested	Result
Sample		Complete
Cannabinoids	07/24/2025	Complete
Moisture	07/23/2025	11.30% - Complete
Water Activity	07/23/2025	0.563 aw - Complete
Terpenes	07/28/2025	Complete
Microbials	07/31/2025	Complete

Cannabinoids

Completed

20.47%					ND					25.38%				
Total THC					Total CBD					Total Cannabinoids				
Analyte	LOQ	Results	Results	Mass	Analyte	LOQ	Results	Results	Mass	Analyte	LOQ	Results	Results	Mass
	mg/g	%	mg/g	mg/serving		mg/g	%	mg/g	mg/serving		mg/g	%	mg/g	mg/serving
CBDVa	0.0003	<LOQ	<LOQ		CBCVa	0.0003	<LOQ	<LOQ						
CBDV	0.0003	<LOQ	<LOQ		CBNa	0.0003	<LOQ	<LOQ						
CBDa	0.0005	<LOQ	<LOQ		Δ9-THC	0.0005	0.16	1.6						
CBGa	0.0005	1.67	16.7		Δ8-THC	0.0003	<LOQ	<LOQ						
CBG	0.0005	<LOQ	<LOQ		Δ10-THC*	0.0002	<LOQ	<LOQ						
CBD	0.0005	<LOQ	<LOQ		CBL	0.0005	<LOQ	<LOQ						
THCV	0.0003	<LOQ	<LOQ		CBC	0.0003	<LOQ	<LOQ						
CBLV	0.0003	0.05	0.5		THCa	0.0005	23.16	231.6						
CBCV	0.0003	<LOQ	<LOQ		CBCa	0.0006	0.23	2.3						
THCVa	0.0003	0.12	1.2		CBLa	0.0005	<LOQ	<LOQ						
CBN	0.0005	<LOQ	<LOQ		Total THC		20.47	204.66						
					Total CBD		ND	ND	ND					
					Total		25.38	253.79	0.00					

Analyst: 048

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.

*The result is the sum of delta-10 isomers.




 Luke Emerson-Mason
 Laboratory Director
 07/31/2025

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Terpenes

Completed

Analyte	LOQ	Results	Results
	mg/g	mg/g	%
Limonene	0.010	9.289	0.929
β-Caryophyllene	0.010	4.155	0.416
Ocimene	0.010	2.984	0.298
β-Pinene	0.010	2.651	0.265
α-Pinene	0.010	2.224	0.222
α-Humulene	0.010	1.753	0.175
β-Myrcene	0.010	1.086	0.109
Camphene	0.010	0.318	0.032
Eucalyptol	0.010	0.191	0.019
Terpinolene	0.010	0.164	0.016
γ-Terpinene	0.010	0.034	0.003
Geraniol	0.010	0.026	0.003
Linalool	0.010	0.022	0.002
α-Terpinene	0.010	0.021	0.002
α-Bisabolol	0.010	0.020	0.002
3-Carene	0.010	<LOQ	<LOQ
Caryophyllene Oxide	0.010	<LOQ	<LOQ
cis-Nerolidol	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		24.939	2.494

Primary Aromas

 Orange	 Cinnamon	 Earthy	 Pine	 Hops
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Analyst: 052

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

Analyst: 018

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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