

## 0203-17-01

**Sample ID:** BIA251021S0646  
**Strain:** mule fuel  
**Harvest Lot:**  
**Matrix:** Plant  
**Type:** Flower - Cured  
**Sample Size:** 5.98 g  
**Lot#:**

**Produced:**  
**Collected:**  
**Received:** 10/21/2025  
**Completed:** 10/28/2025  
**Batch#:**

**Client:**  
**cloud 9**  
**Lic. #**  
 4082 Noyestar Rd  
 East Hardwick, VT 05836



### Summary

Test	Date Tested	Result
Sample		Complete
Cannabinoids	10/22/2025	Complete
Moisture	10/22/2025	10.20% - Complete
Water Activity	10/22/2025	0.507 aw - Complete
Terpenes	10/24/2025	Complete
Microbials	10/24/2025	Complete

### Cannabinoids

Completed

29.71% Total THC					0.10% Total CBD					35.96% 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	0.11	1.1		Δ9-THC	0.0005	0.56	5.6						
CBGa	0.0005	0.76	7.6		Δ8-THC	0.0003	<LOQ	<LOQ						
CBG	0.0005	0.12	1.2		Δ10-THC*	0.0002	0.51	5.1						
CBD	0.0005	<LOQ	<LOQ		CBL	0.0005	<LOQ	<LOQ						
THCV	0.0003	0.06	0.6		CBC	0.0003	<LOQ	<LOQ						
CBLV	0.0003	0.13	1.3		THCa	0.0005	33.24	332.4						
CBCV	0.0003	<LOQ	<LOQ		CBCa	0.0006	0.24	2.4						
THCVa	0.0003	0.22	2.2		CBLa	0.0005	<LOQ	<LOQ						
CBN	0.0005	<LOQ	<LOQ		<b>Total THC</b>		<b>29.71</b>	<b>297.08</b>						
					<b>Total CBD</b>		<b>0.10</b>	<b>0.97</b>						
					<b>Total</b>		<b>35.96</b>	<b>359.63</b>	<b>0.00</b>					

Analyst: 052

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: &lt; 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 (&lt;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  
 10/28/2025

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## Terpenes

Completed

Analyte	LOQ	Results	Results
	mg/g	mg/g	%
β-Myrcene	0.010	3.423	0.342
Limonene	0.010	2.528	0.253
α-Pinene	0.010	2.362	0.236
Ocimene	0.010	2.050	0.205
β-Pinene	0.010	1.983	0.198
β-Caryophyllene	0.010	1.412	0.141
α-Humulene	0.010	0.628	0.063
Terpinolene	0.010	0.280	0.028
Camphene	0.010	0.110	0.011
Eucalyptol	0.010	0.029	0.003
γ-Terpinene	0.010	0.029	0.003
3-Carene	0.010	0.024	0.002
α-Terpinene	0.010	0.020	0.002
α-Bisabolol	0.010	0.017	0.002
Linalool	0.010	0.015	0.001
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
<b>Total</b>		<b>14.909</b>	<b>1.491</b>

## Primary Aromas

 Hops	 Orange	 Pine	 Earthy	 Cinnamon
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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 (&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  
 10/28/2025

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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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