



261 Mountain View Dr  
 Colchester, VT 05446  
 License #: TLAB0030  
 802-767-7256  
 info@onwardanalytics.biz

# Certificate of Analysis

**Client Name:** Somewhere on the Mountain  
**License Number:** MANU0041

**Sample ID:** VT17248  
**Sample Name:** Super Lemon Haze Cartridge  
**Sample Lot:** 0041-420  
**Sample Matrix:** Solvent Extraction Concentrates  
**Date Received:** 1/9/2025  
**Date Reported:** 1/16/2025  
**Date Tested:** 1/13/2025



## Total Terpenes (%) : 4.1351

Dominant Terpenes (%)	
Myrcene	2.4015
Ocimene	0.4502
alpha-Terpinolene	0.4465
Limonene	0.3163
alpha-Pinene	0.1617

## Terpenes

Standard terpene analysis utilizing Gas Chromatography – Mass Spectrometry (GC-MS; SOP-069-OA) | Test ID: #56085

Analyte	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)
3-Carene	< LOQ	< LOQ	0.000002	0.001
alpha-Bisabolol	0.0193	0.193	0.000003	0.001
alpha-Humulene	0.0387	0.387	0.000002	0.001
alpha-Pinene	0.1617	1.617	0.000001	0.001
alpha-Terpinene	ND	ND	0.000001	0.001
alpha-Terpinolene	0.4465	4.465	0.000004	0.001
beta-caryophyllene	0.1096	1.096	0.000004	0.001
beta-Pinene	0.0823	0.823	0.000002	0.001
Camphene	< LOQ	< LOQ	0.000001	0.001
Caryophyllene Oxide	0.0233	0.233	0.000011	0.001
Eucalyptol	< LOQ	< LOQ	0.000002	0.001
gamma-Terpinene	ND	ND	0.000002	0.001
Geraniol	ND	ND	0.000008	0.003
Guaiol	ND	ND	0.000007	0.001
Isopulegol	ND	ND	0.000005	0.001
Isopropyl Toluene	ND	ND	0.000003	0.001
Limonene	0.3163	3.163	0.000002	0.001
Linalool	0.0453	0.453	0.000003	0.001
Nerolidol	0.0404	0.404	0.000007	0.001
Myrcene	2.4015	24.015	0.000003	0.001
Ocimene	0.4502	4.502	0.000002	0.001
<b>Total Terpenes</b>	<b>4.1351</b>	<b>41.351</b>		

*Callie Chapman*

Callie Chapman  
 Lab Director  
 1/16/2025

ONWARD ANALYTICS

In performing the services, Onward Analytics, ("OA") shall exercise a degree of skill and care ordinarily exercised by a reasonably prudent laboratory professional under similar circumstances. Except as set forth in the preceding sentence, client acknowledges and agrees that: (a) the services may require OA to make judgements based upon limited data rather than upon scientific certainties; (b) OA's approach, recommendations, and associated cost estimates, if any, are based on industry practices and averages; (c) OA renders its opinions with respect to observations made and data available at the time of testing; (d) ultimate outcomes could be inconsistent with OA's conclusions, results and projections; and (e) there may be additional reports relating to the site (whether prepared by OA or other parties), and reliance upon any OA report without reference to any such other reports is done at client's sole risk.





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**Date Tested:** 1/13/2025



Total Cannabinoids		
	%	mg/g
<b>Total THC:</b>	<b>73.361</b>	<b>733.607</b>
<b>Total CBD:</b>	--	--
<b>Total Cannabinoids:</b>	<b>77.848</b>	<b>778.478</b>

**Total theoretical CBD % = (CBD%) + (CBDA% \* 0.877)**  
**Total theoretical THC % = (delta-9-THC%) + (THCA% \* 0.877)**

## Potency

Standard potency analysis utilizing High Performance Liquid Chromatography (HPLC; SOP-024-OA) | Test ID: #56084

Analyte	%	mg/g	LOD (mg/g)	LOQ (mg/g)
CBC	0.6166	6.166	0.0003	0.0040
CBCA	ND	ND	0.0002	0.0040
CBD	< LOQ	< LOQ	0.0008	0.0040
CBDA	ND	ND	0.0002	0.0040
CBDV	ND	ND	0.0008	0.0040
CBDVA	ND	ND	0.0001	0.0040
CBG	2.9478	29.478	0.0009	0.0040
CBGA	ND	ND	0.0001	0.0040
CBN	0.9227	9.227	0.0004	0.0040
CBNA	ND	ND	0.0002	0.0040
D8 THC	ND	ND	0.0012	0.0040
D9 THC	73.3607	733.607	0.0016	0.0049
D10 THC	ND	ND	0.0004	0.0040
THCA	< LOQ	< LOQ	0.0002	0.0040
THCV	< LOQ	< LOQ	0.0016	0.0049
THCVA	ND	ND	0.0002	0.0040

Callie Chapman  
 Lab Director  
 1/16/2025

Rev. 1 Initial Release

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## Somewhere on the Mountain

 Sample ID: BIA250421S0028  
 Strain: ML-MANU0094-VT25007

 Produced:  
 Collected:  
 Received: 04/22/2025  
 Completed: 04/25/2025  
 Batch#:

 Client  
**Dirigo Cannabis VT**  
 Lic. # Manu0094  
 217 Quarry Rd.  
 Middlebury, VT 05753

 Matrix: Concentrates & Extracts  
 Type: Distillate  
 Sample Size: 1 units  
 Lot#:


### Summary

Test	Date Tested	Result
Sample		Complete
Cannabinoids	04/22/2025	Complete
Residual Solvents	04/24/2025	Complete
Pesticides	04/22/2025	Complete
Heavy Metals	04/25/2025	Complete

### Cannabinoids

Completed

<b>83.29%</b> Total THC	<b>1.01%</b> Total CBD	<b>89.96%</b> Total Cannabinoids
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Analyte	LOQ	Results	Results	Mass	
	%	%	mg/g	mg/mL	mg/container
CBDVa	0.0001	<LOQ	<LOQ		
CBDV	0.0001	<LOQ	<LOQ		
CBDa	0.0001	<LOQ	<LOQ		
CBGa	0.0001	<LOQ	<LOQ		
CBG	0.0002	2.71	27.1		
CBD	0.0002	1.01	10.1		
THCV	0.0002	0.80	8.0		
CBN	0.0001	1.09	10.9		
Δ9-THC	0.0002	83.29	832.9		
Δ8-THC	0.0002	<LOQ	<LOQ		
Δ10-THC	0.0000	<LOQ	<LOQ		
CBC	0.0002	1.07	10.7		
THCa	0.0003	<LOQ	<LOQ		
<b>Total THC</b>		<b>83.29</b>	<b>832.87</b>		
<b>Total CBD</b>		<b>1.01</b>	<b>10.09</b>		
<b>Total</b>		<b>89.96</b>	<b>899.64</b>	<b>0.00</b>	<b>0.00</b>

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: &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.




 Luke Emerson-Mason  
 Laboratory Director  
 04/25/2025

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## Somewhere on the Mountain

 Sample ID: BIA250421S0028  
 Strain: ML-MANU0094-VT25007

 Produced:  
 Collected:  
 Received: 04/22/2025  
 Completed: 04/25/2025  
 Batch#:

 Client  
**Dirigo Cannabis VT**  
 Lic. # Manu0094  
 217 Quarry Rd.  
 Middlebury, VT 05753

 Matrix: Concentrates & Extracts  
 Type: Distillate  
 Sample Size: 1 units  
 Lot#:

### Pesticides

Completed

Category 1 Pesticides	LOD	LOQ	Results
	PPM	PPM	PPM
Chlorpyrifos	0.0003	0.0010	ND
Imazalil	0.0003	0.0010	ND
Category 2 Pesticides	LOD	LOQ	Results
	PPM	PPM	PPM
Abamectin	0.0003	0.0010	ND
Acephate	0.001	0.0050	ND
Acequinocyl	0.0003	0.0010	ND
Azoxystrobin	0.00005	0.0010	ND
Bifenazate	0.0001	0.0010	ND
Bifenthrin	0.0001	0.0010	ND
Carbaryl	0.0001	0.0010	ND
Cypermethrin	0.001	0.0050	ND
Etoxazole	0.0001	0.0010	ND
Imidacloprid	0.00005	0.0010	ND
Myclobutanil	0.0001	0.0010	<LOQ
Pyrethrins	0.001	0.0050	ND
Spinosyn A	0.0001	0.0010	ND
Spinosyn D	0.0003	0.0010	ND

Analyst: 045

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 quantify. Any pesticides or mycotoxins that were not quantifiable are less than the stated LOQ (&lt;LOQ).

ppm = parts per million

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

ND = Not Detected (&lt;LOD)




 Luke Emerson-Mason  
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 04/25/2025

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## Somewhere on the Mountain

 Sample ID: BIA250421S0028  
 Strain: ML-MANU0094-VT25007

 Produced:  
 Collected:  
 Received: 04/22/2025  
 Completed: 04/25/2025  
 Batch#:

 Client  
**Dirigo Cannabis VT**  
 Lic. # Manu0094  
 217 Quarry Rd.  
 Middlebury, VT 05753

 Matrix: Concentrates & Extracts  
 Type: Distillate  
 Sample Size: 1 units  
 Lot#:

## Heavy Metals

Completed

Analyte	LOQ	Results
	µg/g	µg/g
Chromium	0.0001	NT
Nickel	0.0001	NT
Copper	0.0001	NT
Zinc	0.0001	NT
Arsenic	0.0001	0.0035
Cadmium	0.0001	<LOQ
Mercury	0.0001	<LOQ
Lead	0.0001	0.0097
<b>Total</b>		<b>0.0132</b>

Analyst: 052

Heavy Metal Methodology: ICP-MS using PerkinElmer NexION® 2000 ICP Mass Spectrometer

Reagent Blanks: &lt; LOQs for all analytes

ppm = parts per million

LOQ = The lowest quantity that this method can reliably detect. Any heavy metal 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.

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




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 Matrix: Concentrates & Extracts  
 Type: Distillate  
 Sample Size: 1 units  
 Lot#:

## Residual Solvents

Completed

Analyte	LOQ	Results
	µg/g	µg/g
Acetone	50.00	<LOQ
Acetonitrile	50.00	<LOQ
Benzene	0.50	<LOQ
n-Butane	50.00	<LOQ
Chloroform	5.00	<LOQ
Ethanol	500.00	<LOQ
Ethyl-Acetate	500.00	<LOQ
Ethyl-Ether	500.00	<LOQ
Heptane	500.00	<LOQ
n-Hexane	5.00	<LOQ
Isopropanol	50.00	<LOQ
Methanol	50.00	<LOQ
Dichloromethane	50.00	<LOQ
n-Pentane	500.00	<LOQ
Propane	500.00	<LOQ
Toluene	50.00	<LOQ
Trichloroethylene	500.00	<LOQ
Xylenes	50.00	<LOQ
<b>Total</b>		<b>0</b>

Analyst: 048

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

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

Reagent Blanks: &lt; LOQs for all analytes




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