



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: VT10564
Sample Name: GG4 Distillate Cartridge
Sample Lot: 0041-0231
Sample Matrix: Solvent Extraction Concentrates
Date Received: 6/6/2024
Date Reported: 6/13/2024
Date Tested: 6/10/2024



Total Terpenes (%) : 2.4981

Dominant Terpenes (%)	
Myrcene	1.3908
Ocimene	0.2702
Limonene	0.1922
alpha-Terpinolene	0.1878
alpha-Bisabolol	0.1311

Terpenes

Standard terpene analysis utilizing Gas Chromatography – Mass Spectrometry (GC-MS; SOP-069-OA) | Test ID: #31605

Analyte	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)
3-Carene	ND	ND	0.000002	0.002
alpha-Bisabolol	0.1311	1.311	0.000003	0.002
alpha-Humulene	0.042	0.42	0.000002	0.002
alpha-Pinene	0.0996	0.996	0.000001	0.002
alpha-Terpinene	ND	ND	0.000001	0.002
alpha-Terpinolene	0.1878	1.878	0.000004	0.002
beta-caryophyllene	0.0956	0.956	0.000004	0.002
beta-Pinene	0.0473	0.473	0.000002	0.002
Camphene	ND	ND	0.000001	0.002
Caryophyllene Oxide	ND	ND	0.000011	0.002
Eucalyptol	ND	ND	0.000002	0.002
gamma-Terpinene	ND	ND	0.000002	0.002
Geraniol	ND	ND	0.000008	0.002
Guaiol	< LOQ	< LOQ	0.000007	0.002
Isopulegol	ND	ND	0.000005	0.002
Isopropyl Toluene	ND	ND	0.000003	0.002
Limonene	0.1922	1.922	0.000002	0.002
Linalool	0.0415	0.415	0.000003	0.002
Nerolidol	ND	ND	0.000007	0.002
Myrcene	1.3908	13.908	0.000003	0.002
Ocimene	0.2702	2.702	0.000002	0.002
Total Terpenes	2.4981	24.981		

Callie Chapman
 Lab Director
 6/13/2024

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 Received: 6/6/2024
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Total Cannabinoids		
	%	mg/g
Total THC:	79.768	797.681
Total CBD:	0.572	5.715
Total Cannabinoids:	87.863	878.633

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: #31604

Analyte	%	mg/g	LOD (mg/g)	LOQ (mg/g)
CBC	1.9435	19.435	0.0003	0.0040
CBCA	ND	ND	0.0002	0.0040
CBD	0.5715	5.715	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	4.6037	46.037	0.0009	0.0040
CBGA	ND	ND	0.0001	0.0040
CBN	< LOQ	< LOQ	0.0004	0.0040
CBNA	ND	ND	0.0002	0.0040
D8 THC	< LOQ	< LOQ	0.0012	0.0040
D9 THC	79.7681	797.681	0.0016	0.0049
D10 THC	< LOQ	< LOQ	0.0004	0.0040
THCA	ND	ND	0.0002	0.0040
THCV	0.9765	9.765	0.0016	0.0049
THCVA	ND	ND	0.0002	0.0040

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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

83.29% Total THC	1.01% Total CBD	89.96% 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		
Total THC		83.29	832.87		
Total CBD		1.01	10.09		
Total		89.96	899.64	0.00	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.




 Luke Emerson-Mason
 Laboratory Director
 04/25/2025

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 (866) 506-5866
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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
Etoazole	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 (<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 (<LOD)




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 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#:

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
Total		0.0132

Analyst: 052

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

Reagent Blanks: < 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 (<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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Somewhere on the Mountain

Sample ID: BIA250421S0028
Strain: ML-MANU0094-VT25007

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

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

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

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
Total		0

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 (<LOQ).

Reagent Blanks: < LOQs for all analytes




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04/25/2025

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