Bia Diagnostics Laboratories

Bia Diagnostics
480 Hercules Drive Suite 101
Colchester, VT 05446

(802) 540-0148
https://www.biadiagnostics.com/
Lic# TLAB0029

Somewhere on the Mountain

Sample ID: BIA25042150028
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

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

Analyte	LOQ	Results	Results	Mass	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:
TotalTHC=(THCAx0.877)+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
04/25/2025

Somewhere on the Mountain

Sample ID: BIA25042150028
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

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 (<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)

Luke Emerson-Mason
Laboratory Director
04/25/2025

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

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.

Luke Emerson-Mason
Laboratory Director
04/25/2025

Somewhere on the Mountain

Sample ID: BIA25042150028
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

Luke Emerson-Mason
Laboratory Director
04/25/2025