

Northern Lights

 Sample ID: BIA250707S0023
 Strain: Northern Lights

 Matrix: Concentrates & Extracts
 Type: Distillate
 Sample Size: 1 units
 Lot#: MANU0008-200-1

 Produced:
 Collected:
 Received: 07/07/2025
 Completed: 07/10/2025
 Batch#: MANU0008-200-1

 Client
X-Tract Vermont
 Lic. # MANU0008
 650 INDUSTRIAL PARK RD
 SAINT ALBANS, VT 05478


Summary

Test	Date Tested	Result
Sample		Complete
Cannabinoids	07/09/2025	Complete
Terpenes	07/09/2025	Complete

Cannabinoids

Completed

84.13%						0.39%						88.11%					
Total THC						Total CBD						Total Cannabinoids					
Analyte	LOQ	Results	Results	Mass	Mass	Analyte	LOQ	Results	Results	Mass	Mass	Analyte	LOQ	Results	Results	Mass	Mass
	%	%	mg/g	mg/mL	mg/container		%	%	mg/g	mg/mL	mg/container		%	%	mg/g	mg/mL	mg/container
CBDVa	0.0000	<LOQ	<LOQ			CBCVa	0.0000	<LOQ	<LOQ			CBCVa	0.0000	<LOQ	<LOQ		
CBDV	0.0000	<LOQ	<LOQ			CBNa	0.0000	<LOQ	<LOQ			CBNa	0.0000	<LOQ	<LOQ		
CBDa	0.0001	<LOQ	<LOQ			Δ9-THC	0.0001	84.13	841.3			Δ9-THC	0.0001	84.13	841.3		
CBGa	0.0001	<LOQ	<LOQ			Δ8-THC	0.0000	<LOQ	<LOQ			Δ8-THC	0.0000	<LOQ	<LOQ		
CBG	0.0001	0.73	7.3			Δ10-THC*	0.0000	1.57	15.7			Δ10-THC*	0.0000	1.57	15.7		
CBD	0.0001	0.39	3.9			CBL	0.0001	<LOQ	<LOQ			CBL	0.0001	<LOQ	<LOQ		
THCV	0.0000	0.30	3.0			CBC	0.0000	0.16	1.6			CBC	0.0000	0.16	1.6		
CBLV	0.0000	<LOQ	<LOQ			THCa	0.0001	<LOQ	<LOQ			THCa	0.0001	<LOQ	<LOQ		
CBCV	0.0000	<LOQ	<LOQ			CBCa	0.0001	<LOQ	<LOQ			CBCa	0.0001	<LOQ	<LOQ		
THCVa	0.0000	<LOQ	<LOQ			CBLa	0.0001	<LOQ	<LOQ			CBLa	0.0001	<LOQ	<LOQ		
CBN	0.0001	0.83	8.3			Total THC		84.13	841.26			Total THC		84.13	841.26		
						Total CBD		0.39	3.90			Total CBD		0.39	3.90		
						Total		88.11	881.07	0.00	0.00	Total		88.11	881.07	0.00	0.00

Analyst: 056

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
 07/10/2025

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Terpenes

Completed

Analyte	LOQ	Results	Results
	mg/g	mg/g	%
α -Pinene	0.010	4.825	0.482
β -Pinene	0.010	4.441	0.444
β -Myrcene	0.010	3.772	0.377
β -Caryophyllene	0.010	3.484	0.348
Limonene	0.010	2.552	0.255
Ocimene	0.010	1.299	0.130
α -Humulene	0.010	1.235	0.123
3-Carene	0.010	0.570	0.057
Camphene	0.010	0.241	0.024
Caryophyllene Oxide	0.010	0.169	0.017
Eucalyptol	0.010	0.169	0.017
α -Bisabolol	0.010	0.043	0.004
α -Terpinene	0.010	0.015	0.002
cis-Nerolidol	0.010	<LOQ	<LOQ
γ -Terpinene	0.010	<LOQ	<LOQ
Geraniol	0.010	<LOQ	<LOQ
Guaiol	0.010	<LOQ	<LOQ
Isopulegol	0.010	<LOQ	<LOQ
Linalool	0.010	<LOQ	<LOQ
p-Cymene	0.010	<LOQ	<LOQ
Terpinolene	0.010	<LOQ	<LOQ
trans-Nerolidol	0.010	<LOQ	<LOQ
Total		22.816	2.282

Primary Aromas

 Pine	 Hops	 Cinnamon	 Orange	 Earthy
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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 (<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.

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General Distillate

Sample ID: BIA250626S0022
Strain: Mix

Matrix: Concentrates & Extracts
Type: Distillate
Sample Size: 1 units
Lot#: MANU0008-200

Produced:
Collected:
Received: 06/26/2025
Completed: 07/03/2025
Batch#: MANU0008-200

Client
X-Tract Vermont
Lic. # MANU0008
650 INDUSTRIAL PARK RD
SAINT ALBANS, VT 05478



Summary

Test	Date Tested	Result
Sample		Complete
Residual Solvents	07/02/2025	Complete
Pesticides	07/02/2025	Complete
Heavy Metals	07/03/2025	Complete



Luke E-M

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07/03/2025

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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	ND
Pyrethrins	0.001	0.0050	ND
Spinosyn A	0.0001	0.0010	ND
Spinosyn D	0.0003	0.0010	ND

Analyst: 048

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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Heavy Metals

Completed

Analyte	LOQ	Results
	µg/g	µg/g
Chromium	0.0005	NT
Nickel	0.0005	NT
Copper	0.0005	NT
Zinc	0.0005	NT
Arsenic	0.0005	0.0063
Cadmium	0.0005	0.0008
Mercury	0.0001	<LOQ
Lead	0.0005	0.0041
Total		0.0112

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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 07/03/2025

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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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 07/03/2025

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