



Liberty Leaf  
Address: 399 Smith St  
Farmingdale, NY 11735  
Contact Name:  
Contact Phone:  
License #: OCM-PROC-24-000176  
Sample ID: 2508SMNY0639.3188



SMITHERS

CERTIFICATE OF ANALYSIS

Permit #: OCM-CPL-00004

Certificate: 11149.1

## Turn - POD - 1.0g - Distillate - Blue Dream

Lot #: TU-BB-P-1G-BLD-082725  
Sample ID: 2508SMNY0639.3188  
Regulatory Category: Adult Use  
Received: 08/29/2025  
Sampling Location: 399 Smith St  
Farmingdale, NY 11735

Lot Size: 285  
Sample Type: Concentrate  
Amount Received: 2  
Sample Collected: 08/29/2025 11:32 AM  
Published: 09/07/2025



## COMPLIANCE FOR RETAIL

Cannabinoid Profile Pass	Terpenes Total Pass	Residual Solvents Pass	Pass Sample Status
Pesticides Pass	Mycotoxins Pass	Water Activity Not Tested	81.9% Total THC
Trace Metals Pass	Microbial Contaminants Pass	Moisture Analysis Not Tested	0.177% Total CBD
	Filth & Foreign Not Tested		86.4 % Total Cannabinoids

Report Notes: N/A

Kristofer Marsh, Ph.D.

State Director

09/07/2025

Kristofer Marsh

Smithers CTS New York LLC  
49 John Hicks Drive  
Warwick, NY 10990  
(845) 202-9737



Accreditation #: 121747

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## Average Cannabinoid Profile

**Pass**

## Sample Analysis

**Date:** 09/07/2025 08:43 PM

**SOP:** NY.SOPT.40.260

**Analyzed By:** HPLC

**Sample Weight:** N/A

**Analyst:** Stephanie Knapp

Analyte	LOQ (%)	Average % (w/w)	mg/serving	Homogeneity <sup>†</sup>
Total Tetrahydrocannabinol (THC)	-	81.9	819	
Tetrahydrocannabinolic acid (THCA)	0.0500	<LOQ	<LOQ	
Δ8-THC	0.0500	<LOQ	<LOQ	
Δ9-THC	0.0500	81.9	819	
Δ10-THC-RS	0.0500	<LOQ	<LOQ	
Δ10-THC-RR	0.0500	<LOQ	<LOQ	
Total Cannabidiol (CBD)	-	0.177	1.77	
Cannabinadiolic acid (CBDA)	0.0500	<LOQ	<LOQ	
Cannabidiol (CBD)	0.0500	0.177	1.77	
Total Active Tetrahydrocannabivarin (THCV)	-	0.525	5.25	
Tetrahydrocannabivarinic acid (THCVA)	0.0500	<LOQ	<LOQ	
Tetrahydrocannabivarin (THCV)	0.0500	0.525	5.25	
Total Active Cannabigerol (CBG)	-	3.06	30.6	
Cannabigerolic acid (CBGA)	0.0500	<LOQ	<LOQ	
Cannabigerol (CBG)	0.0500	3.06	30.6	
Cannabidivarin (CBDV)	0.0500	<LOQ	<LOQ	
Cannabinol (CBN)	0.0500	0.607	6.07	
Cannabichromene (CBC)	0.0500	0.169	1.69	

Cannabinoid Totals	Actual % (w/w)	mg/serving	Homogeneity <sup>†</sup>
Total Cannabinoids	86.4	864	

**† Concentration of individual samples must be ±25% of the mean concentration**

Total Active CBD = CBD + (0.877 x CBDA); Total Active CBG = CBG + (0.878 x CBGA);

Total Active THC = (Δ9THC + Δ8THC + Δ10THC-RS + Δ10THC-RR) + (0.877 x THCA);

Total Active THCV = THCV + (0.867 x THCVA);

Serving Weight: 1g

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**Terpene Total**

**Pass (3.518%)**

**Sample Analysis**

**Date:** 09/05/2025 12:37 PM

**SOP:** NY.SOPT.40.090

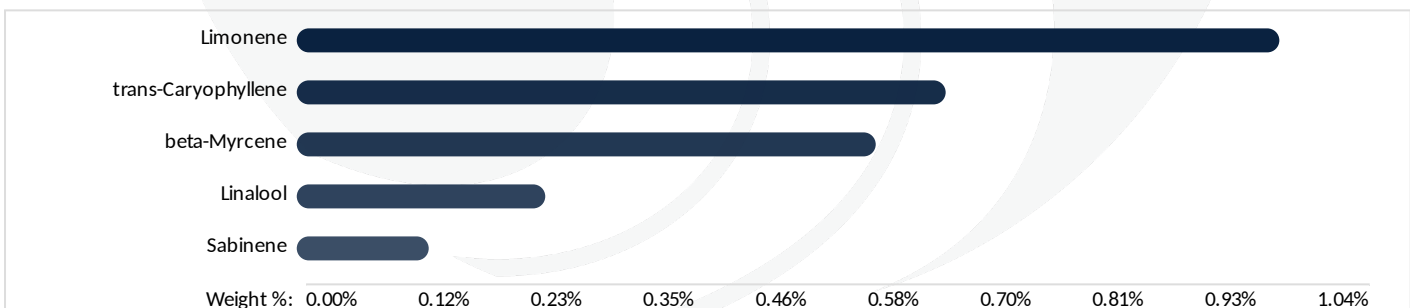
**Sample Weight:** 0.2048 g

**Analyzed By:** GC-MS

**Analyst:** Stephanie Knapp

Analyte	LOQ (%)	Results (%)	Analyte	LOQ (%)	Results (%)
3-Carene	0.0004200	0.004300	gamma-Terpinene	0.0004400	<LOQ
alpha-Bisabolol	0.0005000	0.1176	gamma-Terpineol	0.0003000	0.01570
alpha-Humulene	0.0005600	0.008800	Geraniol	0.0004800	0.02850
alpha-Phellandrene	0.0006600	0.03200	Geranyl acetate	0.0006200	0.04760
alpha-Pinene	0.0004800	0.09290	Guaol	0.0006000	<LOQ
alpha-Terpinene	0.0002600	<LOQ	Isoborneol	0.0003400	<LOQ
alpha-Terpineol	0.0003400	0.09200	Isopulegol	0.0006600	<LOQ
beta-Myrcene	0.0006400	0.6151	Limonene	0.0007400	1.044
beta-Pinene	0.0006600	0.1402	Linalool	0.0004600	0.2640
Borneol	0.0004600	<LOQ	Menthol	0.0004600	<LOQ
Camphene	0.0004400	0.02480	Nerol	0.0005000	<LOQ
Camphor	0.0004000	0.01070	Pulegone (+)	0.0005600	<LOQ
Caryophyllene oxide	0.0005800	0.02970	Sabinene	0.0003400	0.1402
Cedrene	0.0004400	0.005900	Sabinene Hydrate	0.0004200	<LOQ
Cedrol	0.0005600	<LOQ	Terpinolene	0.0005000	0.02620
cis-Nerolidol	0.0006800	<LOQ	trans-b-Ocimene	0.0004200	<LOQ
cis-Ocimene	0.0005200	<LOQ	trans-Caryophyllene	0.0006600	0.6894
Eucalyptol	0.0007200	<LOQ	trans-Nerolidol	0.0007200	<LOQ
Farnesene	0.0008400	<LOQ	Valencene	0.0005600	<LOQ
Fenchone	0.0005000	<LOQ			

Terpene Totals	%	Pass/Fail
Total Terpenes	3.518	PASS



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**Trace Metals**

**Pass**

**Sample Analysis**

**Date:** 09/05/2025 11:53 AM

**SOP:** NY.SOPT.40.050

**Analyzed By:** ICP-MS

**Sample Weight:** 0.1204 g

**Analyst:** Moni Kaneti

Analyte	LOQ (µg/g)	Action Limit (µg/g)	Results (µg/g)	Pass/Fail
Antimony (Sb)	0.00200	2.00	<LOQ	PASS
Arsenic (As)	0.00200	0.200	0.00500	PASS
Cadmium (Cd)	0.00200	0.200	<LOQ	PASS
Chromium (Cr)	0.00200	110	0.0300	PASS
Copper (Cu)	0.00200	30.0	0.213	PASS
Lead (Pb)	0.00200	0.500	0.0100	PASS
Mercury (Hg)	0.00200	0.100	<LOQ	PASS
Nickel (Ni)	0.00200	2.00	0.0240	PASS

**Mycotoxin Analysis**

**Pass**

**Sample Analysis**

**Date:** 09/05/2025 12:45 PM

**SOP:** NY.SOPT.40.180

**Analyzed By:** LC-MS/MS

**Sample Weight:** N/A

**Analyst:** Destiny Ribadeneyra

Analyte	LOQ (µg/g)	Action Limit (µg/g)	Results (µg/g)	Pass/Fail
Sum of Aflatoxins	-	0.020		
Aflatoxin B1	0.0010	0.020	<LOQ	PASS
Aflatoxin B2	0.0020	0.020	<LOQ	PASS
Aflatoxin G1	0.0010	0.020	<LOQ	PASS
Aflatoxin G2	0.0020	0.020	<LOQ	PASS
Ochratoxin A	0.0020	0.020	<LOQ	PASS

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### Pesticides LC

Pass

### Sample Analysis

Date: 09/05/2025 02:37 PM

SOP: NY.SOPT.040.270

Analyzed By: LC-MS/MS

Sample Weight: 0.9863 g

Analyst: Destiny Ribadeneyra

Analyte	LOQ (ppm)	Action Limit (ppm)	Results (ppm)	Pass/Fail
Abamectin	0.0180	0.500	<LOQ	PASS
Acephate	0.00700	0.400	<LOQ	PASS
Acequinocyl	0.0160	2.00	<LOQ	PASS
Acetamiprid	0.00500	0.200	<LOQ	PASS
Aldicarb	0.00500	0.400	<LOQ	PASS
Azadirachtin	0.0220	1.00	<LOQ	PASS
Azoxystrobin	0.00600	0.200	<LOQ	PASS
Bifenazate	0.00600	0.200	<LOQ	PASS
Bifenthrin	0.00300	0.200	<LOQ	PASS
Boscalid	0.0110	0.400	<LOQ	PASS
Carbaryl	0.00600	0.200	<LOQ	PASS
Carbofuran	0.00500	0.200	<LOQ	PASS
Chlorantraniliprole	0.00600	0.200	<LOQ	PASS
Chloromequat chloride	0.0190	1.00	<LOQ	PASS
Chlorpyrifos	0.00900	0.200	<LOQ	PASS
Clofentezine	0.0100	0.200	<LOQ	PASS
Daminozide	0.00400	1.00	<LOQ	PASS
Diazinon	0.00700	0.200	<LOQ	PASS
Dichlorvos	0.0120	1.00	<LOQ	PASS
Dimethoate	0.00600	0.200	<LOQ	PASS
Dimethomorph	0.00500	1.00	<LOQ	PASS
Ethoprophos	0.0130	0.200	<LOQ	PASS
Etofenprox	0.00300	0.400	<LOQ	PASS
Etoazole	0.00500	0.200	<LOQ	PASS
Fenhexamid	0.0150	1.00	<LOQ	PASS
Fenoxycarb	0.0110	0.200	<LOQ	PASS
Fenpyroximate	0.00200	0.400	<LOQ	PASS
Flonicamid	0.00700	1.00	<LOQ	PASS
Fludioxonil	0.0170	0.400	<LOQ	PASS
Hexythiazox	0.00500	1.00	<LOQ	PASS

Analyte	LOQ (ppm)	Action Limit (ppm)	Results (ppm)	Pass/Fail
Imidacloprid	0.00800	0.400	<LOQ	PASS
Indole-3-butyric acid	0.00700	1.00	<LOQ	PASS
Kresoxim methyl	0.0120	0.400	<LOQ	PASS
Malathion	0.0110	0.200	<LOQ	PASS
Metalaxyl	0.0120	0.200	<LOQ	PASS
Methiocarb	0.00400	0.200	<LOQ	PASS
Methomyl	0.0120	0.400	<LOQ	PASS
Mevinphos	0.0190	1.00	<LOQ	PASS
MGK-264	0.0110	0.200	<LOQ	PASS
Myclobutanil	0.0130	0.200	<LOQ	PASS
Naled	0.00500	0.500	<LOQ	PASS
Oxamyl	0.00800	1.00	<LOQ	PASS
Paclobutrazol	0.0150	0.400	<LOQ	PASS
Permethrins, Total	0.00900	0.200	<LOQ	PASS
Phosmet	0.00700	0.200	<LOQ	PASS
Piperonyl Butoxide	0.00600	2.00	<LOQ	PASS
Prallethrin	0.00800	0.200	<LOQ	PASS
Propiconazole	0.00600	0.400	<LOQ	PASS
Propoxur	0.00800	0.200	<LOQ	PASS
Pyrethrins	0.0140	1.00	<LOQ	PASS
Pyridaben	0.00600	0.200	<LOQ	PASS
Spinetoram, Total	0.00500	1.00	<LOQ	PASS
Spinosad, Total	0.00600	0.200	<LOQ	PASS
Spiromesifen	0.0130	0.200	<LOQ	PASS
Spirotetramat	0.00600	0.200	<LOQ	PASS
Spiroxamine	0.00400	0.200	<LOQ	PASS
Tebuconazole	0.0120	0.400	<LOQ	PASS
Thiacloprid	0.00800	0.200	<LOQ	PASS
Thiamethoxam	0.00800	0.200	<LOQ	PASS

Kristofer Marsh, Ph.D.

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**Pesticides GC**

**Pass**

**Sample Analysis**

**Date:** 09/05/2025 03:33 PM

**SOP:** NYS.SOPT.040.271

**Analyzed By:** GC-MS/MS

**Sample Weight:** N/A

**Analyst:** Destiny Ribadeneyra

Analyte	LOQ (ppm)	Action Limit (ppm)	Results (ppm)	Pass/Fail
Captan	0.300	1.00	<LOQ	PASS
Chlordane	0.0700	1.00	<LOQ	PASS
Chlorfenapyr	0.100	1.00	<LOQ	PASS
Coumaphos	0.190	1.00	<LOQ	PASS
Cyfluthrin	0.110	1.00	<LOQ	PASS
Cypermethrin	0.240	1.00	<LOQ	PASS
Fipronil	0.170	0.400	<LOQ	PASS
Imazalil	0.170	0.200	<LOQ	PASS
Methyl parathion	0.0900	0.200	<LOQ	PASS
Pentachloronitrobenzene	0.170	1.00	<LOQ	PASS
Trifloxystrobin	0.110	0.200	<LOQ	PASS

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### Residual Solvents

Pass

### Sample Analysis

Date: 09/05/2025 12:31 PM

SOP: NYS.SOPT.040.272

Analyzed By: GC-MS

Sample Weight: 0.1049 g

Analyst: Destiny Ribadeneyra

Analyte	LOQ (ppm)	Action Limit (ppm)	Results (ppm)	Pass/Fail
1,2-Dichloroethane (Ethylene dichloride, Ethylene chloride)	0.100	5.00	<LOQ	PASS
2-Propanol (Isopropanol, Isopropyl alcohol)	125	5000	<LOQ	PASS
Acetone (2-Propanone)	125	5000	<LOQ	PASS
Acetonitrile	23.6	410	<LOQ	PASS
Benzene	0.100	2.00	<LOQ	PASS
Butanes, Total	62.5	5000	<LOQ	PASS
Chloroform	1.50	60.0	<LOQ	PASS
Dichloromethane (Methylene chloride)	15.0	600	<LOQ	PASS
Dimethyl sulfoxide (DMSO)	125	5000	<LOQ	PASS
Ethanol (Ethyl alcohol)	125	5000	<LOQ	PASS
Ethyl acetate (Acetic acid ethyl ester)	125	5000	<LOQ	PASS
Ethyl ether (Diethyl ether, 1,1'-Oxybisethane)	125	5000	<LOQ	PASS
Heptane (n-Heptane)	125	5000	<LOQ	PASS
Hexanes, Total	14.5	290	<LOQ	PASS
Methanol (Methyl alcohol)	75.1	3000	<LOQ	PASS
Pentanes, Total	195	5000	<LOQ	PASS
Propane	63.0	5000	<LOQ	PASS
Toluene (Methylbenzene)	22.3	890	<LOQ	PASS
Trichloroethane (1,1,1-)	37.6	1500	<LOQ	PASS
Tetrafluoroethane (1,1,1,2-) (HFC134a)*	10.0	1000	<LOQ	PASS
Xylenes, Total (ortho-, meta-, para-)	109	2170	<LOQ	PASS

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**Microbial Impurities - MDG**

**Pass**

**Sample Analysis**

**Date:** 09/05/2025 04:28 PM

**SOP:** NYS.SOPT.40.273

**Analyzed By:** PCR

**Analyst:** Kristy Lee

Analyte	Microbial Type	LOQ (CFU/g)	Allowable Limit	Results	Pass/Fail
Shiga toxin-producing Escherichia coli	Bacterial	1	Not Detected	Not Detected	PASS
Salmonella species	Bacterial	1	Not Detected	Not Detected	PASS
Aspergillus flavus	Fungal	1	Not Detected	Not Detected	PASS
Aspergillus niger	Fungal	1	Not Detected	Not Detected	PASS
Aspergillus terreus	Fungal	1	Not Detected	Not Detected	PASS
Aspergillus fumigatus	Fungal	1	Not Detected	Not Detected	PASS

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Microbial Impurities - TAPC

Pass

Sample Analysis

Date: 09/04/2025 10:59 AM

SOP: NYS.SOPT.040.200

Analyzed By: Plating

Analyst: Lindsey Vento

Analyte	LOQ (CFU/g)	Action Limit (CFU/g)	Results (CFU/g)	Pass/Fail
Total Aerobic Bacteria/CDP-TC	5	10000	<LOQ	PASS

Microbial Impurities - TYMC

Pass

Sample Analysis

Date: 09/05/2025 04:41 PM

SOP: NYS.SOPT.040.200

Analyzed By: Plating

Analyst: Lindsey Vento

Analyte	LOQ (CFU/g)	Action Limit (CFU/g)	Results (CFU/g)	Pass/Fail
Total Yeast and Mold	5	1000	<LOQ	PASS

Kristofer Marsh, Ph.D.

State Director

09/07/2025

Kristofer Marsh

Smithers CTS New York LLC  
49 John Hicks Drive  
Warwick, NY 10990  
(845) 202-9737



Accreditation #: 121747

This is a Smithers CTS New York LLC certification that relates only to the material tested and shall not be reproduced, unless in its entirety, without written approval from Smithers CTS New York LLC. Test results are confidential, unless explicitly waived. All Pass/Fail results please reference state regulations released on 01FEB2024. Pass/Fail results do not use uncertainty, but is available upon request. The product represented has been tested by Smithers CTS New York LLC using validated scientific methodologies. Note action levels are state determined thresholds for human safety and consumption. Acronym Definitions: ND - Not Detected, LOQ - Limit of Quantification, ULOQ - Upper Limit of Quantification; are terms used to describe the reliably measured smallest and largest concentrations. <LOQ\* denotes the result is above detection limit, but below quantifiable limit. CFU - Colony Forming Units. Cannabis Product Sampling SOP# SOP.T.20.010.