



Liberty Leaf
Address: 399 Smith St
Farmingdale, NY 11735
Contact Name:
Contact Phone:
License #: OCM-PROC-24-000176
Sample ID: 2508SMNY0639.3192



SMITHERS

CERTIFICATE OF ANALYSIS

Permit #: OCM-CPL-00004

Certificate: 11153.1

Turn - AIO - 1.0g - Distillate - Lemonade Stand

Lot #: TU-BB-AIO-1G-LS-082725
Sample ID: 2508SMNY0639.3192
Regulatory Category: Adult Use
Received: 08/29/2025
Sampling Location: 399 Smith St
Farmingdale, NY 11735

Lot Size: 500
Sample Type: Concentrate
Amount Received: 2
Sample Collected: 08/29/2025 11:38 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 | 0.211% Total CBD |
| | Filth & Foreign Not Tested | | 86.7 % 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 [†] |
|--|---------|-----------------|------------|--------------------------|
| 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) | - | 0.211 | 2.11 | |
| Cannabinadiolic acid (CBDA) | 0.0500 | <LOQ | <LOQ | |
| Cannabidiol (CBD) | 0.0500 | 0.211 | 2.11 | |
| Total Active Tetrahydrocannabivarin (THCV) | - | 0.539 | 5.39 | |
| Tetrahydrocannabivarinic acid (THCVA) | 0.0500 | <LOQ | <LOQ | |
| Tetrahydrocannabivarin (THCV) | 0.0500 | 0.539 | 5.39 | |
| Total Active Cannabigerol (CBG) | - | 3.27 | 32.7 | |
| Cannabigerolic acid (CBGA) | 0.0500 | <LOQ | <LOQ | |
| Cannabigerol (CBG) | 0.0500 | 3.27 | 32.7 | |
| Cannabidivarin (CBDV) | 0.0500 | <LOQ | <LOQ | |
| Cannabinol (CBN) | 0.0500 | 0.559 | 5.59 | |
| Cannabichromene (CBC) | 0.0500 | 0.186 | 1.86 | |

| Cannabinoid Totals | Actual % (w/w) | mg/serving | Homogeneity [†] |
|--------------------|----------------|------------|--------------------------|
| Total Cannabinoids | 86.7 | 867 | |

† 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

Kristofer Marsh, Ph.D.

09/07/2025

Kristofer Marsh

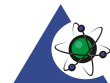
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Terpene Total

Pass (3.466%)

Sample Analysis

Date: 09/05/2025 12:37 PM

SOP: NY.SOPT.40.090

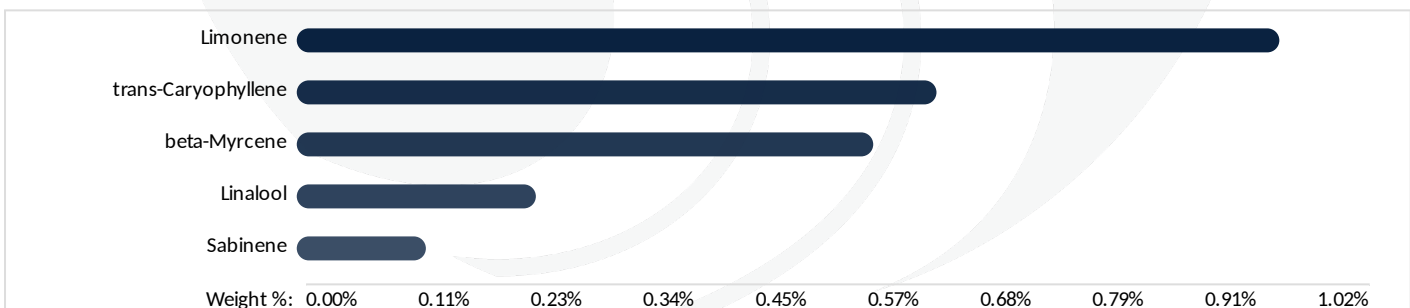
Sample Weight: 0.2455 g

Analyzed By: GC-MS

Analyst: Stephanie Knapp

| Analyte | LOQ (%) | Results (%) | Analyte | LOQ (%) | Results (%) |
|---------------------|-----------|-------------|---------------------|-----------|-------------|
| 3-Carene | 0.0004200 | 0.005500 | gamma-Terpinene | 0.0004400 | <LOQ |
| alpha-Bisabolol | 0.0005000 | 0.1162 | gamma-Terpineol | 0.0003000 | 0.01500 |
| alpha-Humulene | 0.0005600 | 0.008300 | Geraniol | 0.0004800 | 0.02550 |
| alpha-Phellandrene | 0.0006600 | 0.03140 | Geranyl acetate | 0.0006200 | 0.04580 |
| alpha-Pinene | 0.0004800 | 0.09010 | Guaiaol | 0.0006000 | <LOQ |
| alpha-Terpinene | 0.0002600 | <LOQ | Isoborneol | 0.0003400 | <LOQ |
| alpha-Terpineol | 0.0003400 | 0.08790 | Isopulegol | 0.0006600 | <LOQ |
| beta-Myrcene | 0.0006400 | 0.5996 | Limonene | 0.0007400 | 1.022 |
| beta-Pinene | 0.0006600 | 0.1343 | Linalool | 0.0004600 | 0.2487 |
| Borneol | 0.0004600 | <LOQ | Menthol | 0.0004600 | <LOQ |
| Camphene | 0.0004400 | 0.02310 | Nerol | 0.0005000 | <LOQ |
| Camphor | 0.0004000 | 0.01000 | Pulegone (+) | 0.0005600 | <LOQ |
| Caryophyllene oxide | 0.0005800 | 0.02910 | Sabinene | 0.0003400 | 0.1343 |
| Cedrene | 0.0004400 | 0.006000 | Sabinene Hydrate | 0.0004200 | <LOQ |
| Cedrol | 0.0005600 | <LOQ | Terpinolene | 0.0005000 | 0.02610 |
| cis-Nerolidol | 0.0006800 | <LOQ | trans-b-Ocimene | 0.0004200 | <LOQ |
| cis-Ocimene | 0.0005200 | <LOQ | trans-Caryophyllene | 0.0006600 | 0.6654 |
| Eucalyptol | 0.0007200 | <LOQ | trans-Nerolidol | 0.0007200 | <LOQ |
| Farnesene | 0.0008400 | 0.05810 | Valencene | 0.0005600 | <LOQ |
| Fenchone | 0.0005000 | <LOQ | | | |

| Terpene Totals | % | Pass/Fail |
|----------------|-------|-----------|
| Total Terpenes | 3.466 | 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: 0.1397 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 | <LOQ | PASS |
| Cadmium (Cd) | 0.00200 | 0.200 | <LOQ | PASS |
| Chromium (Cr) | 0.00200 | 110 | 0.0100 | PASS |
| Copper (Cu) | 0.00200 | 30.0 | 0.109 | PASS |
| Lead (Pb) | 0.00200 | 0.500 | 0.00500 | PASS |
| Mercury (Hg) | 0.00200 | 0.100 | <LOQ | PASS |
| Nickel (Ni) | 0.00200 | 2.00 | 0.0150 | 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: 1.0476 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 |
| Chlormequat 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 |

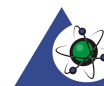
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Pesticides GC

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: 0.1058 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 04:30 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 |

Kristofer Marsh, Ph.D.

State Director

09/07/2025

Kristy Marsh

Smithers CTS New York LLC

49 John Hicks Drive
Warwick, NY 10990
(845) 202-9737



Accreditation #: 121747

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Liberty Leaf
Address: 399 Smith St
Farmingdale, NY 11735
Contact Name:
Contact Phone:
License #: OCM-PROC-24-000176
Sample ID: 2508SMNY0639.3192



CERTIFICATE OF ANALYSIS
Permit #: OCM-CPL-00004

Certificate: 11153.1

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 |

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09/07/2025

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