



**Liberty Leaf**  
 Address: 399 Smith St  
 Farmingdale, NY 11735  
 Contact Name:  
 Contact Phone:  
 License #: OCM-PROC-24-000176  
 Sample ID: 2508SMNY0613.2991



**CERTIFICATE OF ANALYSIS**  
 Permit #: OCM-CPL-00004

Certificate: 10952.1

**Brass Knuckles | AIO Vape | The Truth | Live Liquid Diamond |  
 1g**

Lot #: BKLD081225TT  
 Sample ID: 2508SMNY0613.2991  
 Regulatory Category: Adult Use  
 Received: 08/22/2025  
 Sampling Location: 399 Smith St  
 Farmingdale, NY 11735

Lot Size: 1500  
 Sample Type: Concentrate  
 Amount Received: 13  
 Sample Collected: 08/22/2025 10:47 AM  
 Published: 08/29/2025



**COMPLIANCE FOR RETAIL**

<b>Cannabinoid Profile</b> Pass	<b>Terpenes Total</b> Pass	<b>Residual Solvents</b> Pass	<b>Pass</b> Sample Status  <b>84.0%</b> Total THC  <b>0.215%</b> Total CBD  <b>88.2 %</b> Total Cannabinoids
<b>Pesticides</b> Pass	<b>Mycotoxins</b> Pass	<b>Water Activity</b> Not Tested	
<b>Trace Metals</b> Pass	<b>Microbial Contaminants</b> Pass	<b>Moisture Analysis</b> Not Tested	
	<b>Filth &amp; Foreign</b> Not Tested		

Report Notes: N/A

**Kristofer Marsh, Ph.D.**  
 State Director

08/29/2025

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



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**SMITHERS**

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**Average Cannabinoid Profile**

**Pass**

**Sample Analysis**

Date: 08/29/2025 03:25 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)	-	84.0	840	
Tetrahydrocannabinolic acid (THCA)	0.0500	<LOQ	<LOQ	
Δ8-THC	0.0500	<LOQ	<LOQ	
Δ9-THC	0.0500	84.0	840	
Δ10-THC-RS	0.0500	<LOQ	<LOQ	
Δ10-THC-RR	0.0500	<LOQ	<LOQ	
Total Cannabidiol (CBD)	-	0.215	2.15	
Cannabinadiolic acid (CBDA)	0.0500	<LOQ	<LOQ	
Cannabidiol (CBD)	0.0500	0.215	2.15	
Total Active Tetrahydrocannabivarin (THCV)	-	0.497	4.97	
Tetrahydrocannabivarinic acid (THCVA)	0.0500	<LOQ	<LOQ	
Tetrahydrocannabivarin (THCV)	0.0500	0.497	4.97	
Total Active Cannabigerol (CBG)	-	2.28	22.8	
Cannabigerolic acid (CBGA)	0.0500	<LOQ	<LOQ	
Cannabigerol (CBG)	0.0500	2.28	22.8	
Cannabidivarin (CBDV)	0.0500	<LOQ	<LOQ	
Cannabinol (CBN)	0.0500	0.673	6.73	
Cannabichromene (CBC)	0.0500	0.513	5.13	

Cannabinoid Totals	Actual % (w/w)	mg/serving	Homogeneity <sup>†</sup>
Total Cannabinoids	88.2	882	

† 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: 1 g

**Kristofer Marsh, Ph.D.**

08/29/2025

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**SMITHERS**

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Certificate: 10952.1

**Terpene Total**

**Pass (3.489%)**

**Sample Analysis**

Date: 08/29/2025 12:53 PM

SOP: NY.SOPT.40.090

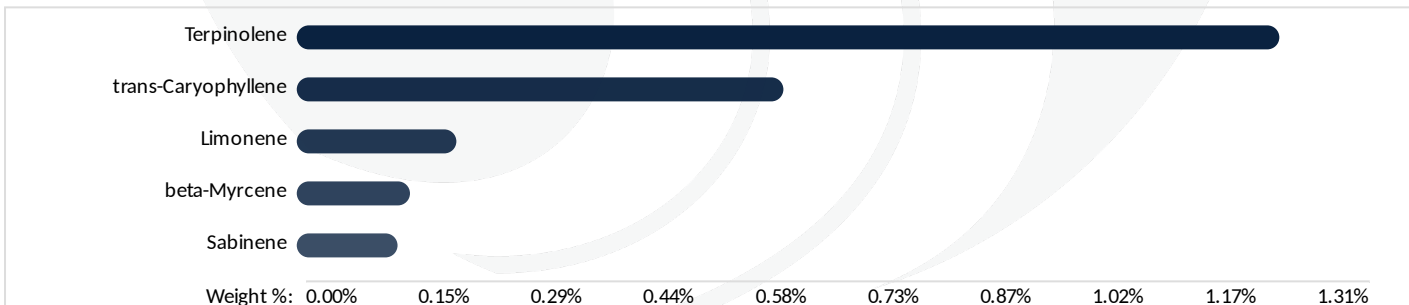
Sample Weight: 0.1791 g

Analyzed By: GC-MS

Analyst: Stephanie Knapp

Analyte	LOQ (%)	Results (%)	Analyte	LOQ (%)	Results (%)
3-Carene	0.0004200	0.05310	gamma-Terpinene	0.0004400	0.008300
alpha-Bisabolol	0.0005000	0.08110	gamma-Terpineol	0.0003000	<LOQ
alpha-Humulene	0.0005600	0.009200	Geraniol	0.0004800	<LOQ
alpha-Phellandrene	0.0006600	0.06440	Geranyl acetate	0.0006200	<LOQ
alpha-Pinene	0.0004800	0.09300	Guaiol	0.0006000	<LOQ
alpha-Terpinene	0.0002600	0.03710	Isoborneol	0.0003400	0.005600
alpha-Terpineol	0.0003400	0.09490	Isopulegol	0.0006600	<LOQ
beta-Myrcene	0.0006400	0.1511	Limonene	0.0007400	0.2130
beta-Pinene	0.0006600	0.1345	Linalool	0.0004600	0.08660
Borneol	0.0004600	0.01160	Menthol	0.0004600	0.05380
Camphene	0.0004400	0.006000	Nerol	0.0005000	<LOQ
Camphor	0.0004000	0.01390	Pulegone (+)	0.0005600	<LOQ
Caryophyllene oxide	0.0005800	0.01940	Sabinene	0.0003400	0.1345
Cedrene	0.0004400	<LOQ	Sabinene Hydrate	0.0004200	<LOQ
Cedrol	0.0005600	<LOQ	Terpinolene	0.0005000	1.311
cis-Nerolidol	0.0006800	<LOQ	trans-b-Ocimene	0.0004200	0.06410
cis-Ocimene	0.0005200	0.09600	trans-Caryophyllene	0.0006600	0.6494
Eucalyptol	0.0007200	<LOQ	trans-Nerolidol	0.0007200	<LOQ
Farnesene	0.0008400	0.07270	Valencene	0.0005600	<LOQ
Fenchone	0.0005000	<LOQ			

Terpene Totals	%	Pass/Fail
Total Terpenes	3.489	PASS



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**Trace Metals**

**Pass**

**Sample Analysis**

Date: 08/27/2025 12:58 PM

SOP: NY.SOPT.40.050

Analyzed By: ICP-MS

Sample Weight: 0.137 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	0.00800	PASS
Cadmium (Cd)	0.00200	0.200	<LOQ	PASS
Chromium (Cr)	0.00200	110	0.0900	PASS
Copper (Cu)	0.00200	30.0	0.174	PASS
Lead (Pb)	0.00200	0.500	0.00800	PASS
Mercury (Hg)	0.00200	0.100	<LOQ	PASS
Nickel (Ni)	0.00200	2.00	0.0920	PASS

**Mycotoxin Analysis**

**Pass**

**Sample Analysis**

Date: 08/28/2025 06:39 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:** 08/28/2025 05:19 PM

**SOP:** NY.SOPT.040.270

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

**Sample Weight:** 0.9915 g

**Analyst:** Destiny Ribadeneyra

Analyte	LOQ (ppm)	Action Limit (ppm)	Results (ppm)	Pass/Fail	Analyte	LOQ (ppm)	Action Limit (ppm)	Results (ppm)	Pass/Fail
Abamectin	0.0180	0.500	<LOQ	PASS	Imidacloprid	0.00800	0.400	<LOQ	PASS
Acephate	0.00700	0.400	<LOQ	PASS	Indole-3-butyric acid	0.00700	1.00	<LOQ	PASS
Acequinocyl	0.0160	2.00	<LOQ	PASS	Kresoxim methyl	0.0120	0.400	<LOQ	PASS
Acetamiprid	0.00500	0.200	<LOQ	PASS	Malathion	0.0110	0.200	<LOQ	PASS
Aldicarb	0.00500	0.400	<LOQ	PASS	Metalaxyl	0.0120	0.200	<LOQ	PASS
Azadirachtin	0.0220	1.00	<LOQ	PASS	Methiocarb	0.00400	0.200	<LOQ	PASS
Azoxystrobin	0.00600	0.200	<LOQ	PASS	Methomyl	0.0120	0.400	<LOQ	PASS
Bifenazate	0.00600	0.200	<LOQ	PASS	Mevinphos	0.0190	1.00	<LOQ	PASS
Bifenthrin	0.00300	0.200	<LOQ	PASS	MGK-264	0.0110	0.200	<LOQ	PASS
Boscalid	0.0110	0.400	<LOQ	PASS	Myclobutanil	0.0130	0.200	<LOQ	PASS
Carbaryl	0.00600	0.200	<LOQ	PASS	Naled	0.00500	0.500	<LOQ	PASS
Carbofuran	0.00500	0.200	<LOQ	PASS	Oxamyl	0.00800	1.00	<LOQ	PASS
Chlorantraniliprole	0.00600	0.200	<LOQ	PASS	Paclobutrazol	0.0150	0.400	<LOQ	PASS
Chloromequat chloride	0.0190	1.00	<LOQ	PASS	Permethrins, Total	0.00900	0.200	<LOQ	PASS
Chlorpyrifos	0.00900	0.200	<LOQ	PASS	Phosmet	0.00700	0.200	<LOQ	PASS
Clofentezine	0.0100	0.200	<LOQ	PASS	Piperonyl Butoxide	0.00600	2.00	<LOQ	PASS
Daminozide	0.00400	1.00	<LOQ	PASS	Prallethrin	0.00800	0.200	<LOQ	PASS
Diazinon	0.00700	0.200	<LOQ	PASS	Propiconazole	0.00600	0.400	<LOQ	PASS
Dichlorvos	0.0120	1.00	<LOQ	PASS	Propoxur	0.00800	0.200	<LOQ	PASS
Dimethoate	0.00600	0.200	<LOQ	PASS	Pyrethrins	0.0140	1.00	<LOQ	PASS
Dimethomorph	0.00500	1.00	<LOQ	PASS	Pyridaben	0.00600	0.200	<LOQ	PASS
Ethoprophos	0.0130	0.200	<LOQ	PASS	Spinetoram, Total	0.00500	1.00	<LOQ	PASS
Etofenprox	0.00300	0.400	<LOQ	PASS	Spinosad, Total	0.00600	0.200	<LOQ	PASS
Etoazole	0.00500	0.200	<LOQ	PASS	Spiromesifen	0.0130	0.200	<LOQ	PASS
Fenhexamid	0.0150	1.00	<LOQ	PASS	Spirotetramat	0.00600	0.200	<LOQ	PASS
Fenoxycarb	0.0110	0.200	<LOQ	PASS	Spiroxamine	0.00400	0.200	<LOQ	PASS
Fenpyroximate	0.00200	0.400	<LOQ	PASS	Tebuconazole	0.0120	0.400	<LOQ	PASS
Flonicamid	0.00700	1.00	<LOQ	PASS	Thiacloprid	0.00800	0.200	<LOQ	PASS
Fludioxonil	0.0170	0.400	<LOQ	PASS	Thiamethoxam	0.00800	0.200	<LOQ	PASS
Hexythiazox	0.00500	1.00	<LOQ	PASS					

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**Pesticides GC**

**Pass**

**Sample Analysis**

**Date:** 08/29/2025 01:41 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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**SMITHERS**

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**Residual Solvents**

**Pass**

**Sample Analysis**

Date: 08/27/2025 03:36 PM

SOP: NYS.SOPT.040.272

Analyzed By: GC-MS

Sample Weight: 0.0967 g

Analyst: Destiny Ribadeneyra

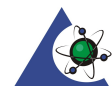
Analyte	LOQ (ppm)	Action Limit (ppm)	Results (ppm)	Pass/Fail
1,2-Dichloroethane (Ethylene dichloride, Ethylene chloride)	0.100	5.00	<LOQ	PASS
2-Propanol (Isopropanol, Isopropyl alcohol)	125	5000	<LOQ	PASS
Acetone (2-Propanone)	125	5000	<LOQ	PASS
Acetonitrile	23.6	410	<LOQ	PASS
Benzene	0.100	2.00	<LOQ	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:** 08/29/2025 02:03 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: 08/26/2025 05:43 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 Aerobic Bacteria/CDP-TC	5	10000	<LOQ	PASS

**Microbial Impurities - TYMC**

**Pass**

**Sample Analysis**

Date: 08/29/2025 02:02 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.**

08/29/2025

State Director

**Smithers CTS New York LLC**

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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# SOPT.20.010.