



Smithers AMS LLC
790 Main St
Wareham, MA 02571
License #: IL281355
Phone: 508-295-2550

Certificate of Analysis



Customer: Bostica, LLC

Address:

71 Linden street
Lynn MA 01905

Phone: 978-569-4063

License #: MC282139



Sample ID: 27534

Sample Name: M00003785009: Charge Bar -
Sour Tangie - Disposable Vape - 1g

Sample Type: Vape

Received Date: 05/08/2025

Report Date: 05/12/2025

METRC ID: 1A40A03000106E5000002165

METRC Source ID:

1A40A03000106E5000002164

Client Batch ID: N/A

Client Sample Size: 4.5 each

Results Summary

Cannabinoids

05/09/2025

TESTED

Vitamin E Acetate

05/09/2025

✓ PASS

Terpenes Extended

05/12/2025

TESTED

Heavy Metals

05/10/2025

✓ PASS

Microbial Impurities

05/12/2025

✓ PASS

Residual Solvents

05/09/2025

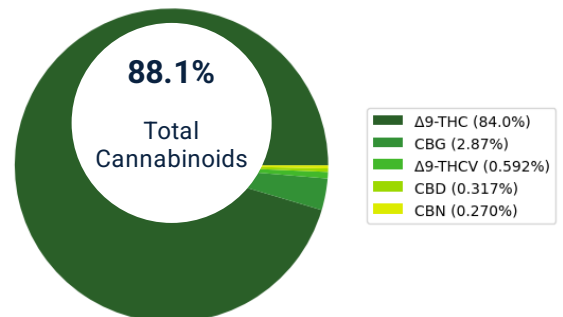
✓ PASS

Mycotoxins

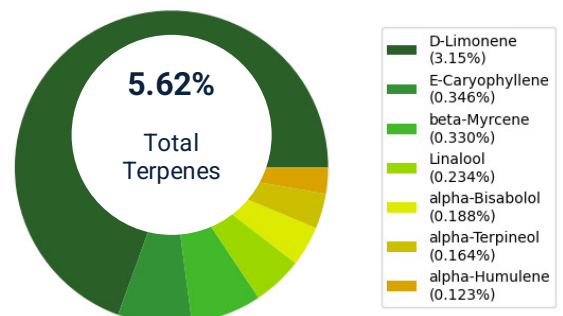
05/12/2025

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Cannabinoid Distribution (%)



Terpene Distribution (%)



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Certificate of Analysis

Cannabinoids

Date Started: 05/08/2025
Instrument: UPLC-PDA

Date Completed: 05/09/2025
Method: TP-09.001.05 & TP-09.012.05

Analyst: Yüemin Wang Kovaleff
Deviation: N/A

Cannabinoid	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
Δ9-THC	84.0	840	0.258	1.39
CBG	2.87	28.7	0.00606	0.0697
Δ9-THCV	0.592	5.92	0.00752	0.0558
CBD	0.317	3.17	0.0108	0.139
CBN	0.270	2.70	0.00955	0.0697
CBDVA	ND	ND	0.00938	0.0558
CBDV	ND	ND	0.0267	0.0558
CBDA	ND	ND	0.00879	0.139
CBGA	ND	ND	0.00547	0.0697
Δ8-THCV	ND	ND	0.0136	0.0558
THCVA	ND	ND	0.00592	0.0558
CBNA	ND	ND	0.00736	0.0558
Exo-THC	ND	ND	0.0112	0.0558
Δ8-THC	ND	ND	0.0244	0.0697
CBL	ND	ND	0.0165	0.0558
THCA	ND	ND	0.0223	0.139
CBC	ND	ND	0.00660	0.0558
CBCA	ND	ND	0.0180	0.0558
Total THC	84.0	840		
Total CBD	0.317	3.17		
Total Cannabinoids	88.1	881		

Total THC = Δ9-THC + (THCA x 0.877)

Total CBD = CBD + (CBDA x 0.877)

Total Cannabinoids = Sum of all cannabinoids without THC/CBD corrections.

LOD = Limit of Detection; **LOQ** = Limit of Quantitation; **ND** = Not Detected.

Vitamin E Acetate

✓ **PASS**

Date Started: 05/08/2025
Instrument: HPLC-PDA

Date Completed: 05/09/2025
Method: TP-09.006.02

Analyst: Yüemin Wang Kovaleff
Deviation: N/A

Analyte	Result (ppm)	LOD (ppm)	LOQ (ppm)	Status
Tocopheryl Acetate	ND	42.0	138	Pass

Certificate of Analysis

Terpenes Extended

Date Started: 05/08/2025
Instrument: GC-MS

Date Completed: 05/12/2025
Method: TP-09.004.03

Analyst: Garrett Lane
Deviation: N/A

Terpene	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
D-Limonene	3.15	31.5	0.00292	0.0138
E-Caryophyllene	0.346	3.46	0.00608	0.0138
beta-Myrcene	0.330	3.30	0.00233	0.0138
Linalool	0.234	2.34	0.00422	0.0138
alpha-Bisabolol	0.188	1.88	0.00513	0.0138
alpha-Terpineol	0.164	1.64	0.00523	0.0138
alpha-Humulene	0.123	1.23	0.00299	0.0138
gamma-Terpinene	0.118	1.18	0.00313	0.0138
Endo-Fenchyl Alcohol	0.116	1.16	0.00461	0.0138
Valencene	0.115	1.15	0.00365	0.0138
Guaiol	0.114	1.14	0.00301	0.0138
E-Nerolidol	0.109	1.09	0.00316	0.0138
beta-Pinene	0.0971	0.971	0.00287	0.0138
Isoborneol	0.0932	0.932	0.00297	0.0138
Terpinolene	0.0907	0.907	0.00173	0.0138
Z-beta-Ocimene	0.0888	0.888	0.00560	0.0138
alpha-Pinene	0.0742	0.742	0.00116	0.0138
alpha-Phellandrene	0.0185	0.185	0.00216	0.0138
Sabinene	0.0159	0.159	0.00472	0.0138
Camphene	0.0149	0.149	0.00153	0.0138
Carophyllene Oxide	<LOQ	<LOQ	0.00313	0.0138
alpha-Terpinene	<LOQ	<LOQ	0.00424	0.0138
E-beta-Ocimene	ND	ND	0.00573	0.0138
gamma-Terpineol	ND	ND	0.00248	0.0138
Isopulegol	ND	ND	0.00671	0.0138
Nerol	ND	ND	0.00436	0.0138
Geraniol	ND	ND	0.00431	0.0138
Pulegone	ND	ND	0.00525	0.0138
Z-Nerolidol	ND	ND	0.00375	0.0138
Eucalyptol	ND	ND	0.00420	0.0138
Sabinene Hydrate	ND	ND	0.00463	0.0138
Menthol	ND	ND	0.00462	0.0138
[+/-]-Borneol	ND	ND	0.00535	0.0277
alpha-Cedrene	ND	ND	0.00420	0.0138
Geranyl Acetate	ND	ND	0.00650	0.0138
Cedrol	ND	ND	0.00564	0.0138
[+,-]-Camphor	ND	ND	0.0102	0.0415
delta-3-Carene	ND	ND	0.00452	0.0138
[+/-]-Fenchone	ND	ND	0.00307	0.0277
Total Terpenes	5.62	56.2		

Heavy Metals

 **PASS**

Date Started: 05/09/2025
Instrument: ICP-MS

Date Completed: 05/10/2025
Method: TP-09.007.01

Analyst: Meagan Mattos
Deviation: N/A

Heavy Metals	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Arsenic	ND	11.0	74.3	200	Pass
Cadmium	ND	6.60	74.3	200	Pass
Lead	ND	6.06	74.3	500	Pass
Mercury	ND	5.29	37.2	100	Pass

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Microbial Impurities

✓ **PASS**

Date Started: 05/08/2025
Instrument: TEMPO & Gene-Up

Date Completed: 05/12/2025
Method: TP-09.010.01 & TP-09.011.01

Analyst: Sydney Murphy
Deviation: N/A

Microbials	Result (CFU/g)	Limit (CFU/g)	Status
Coliforms	ND	1000	Pass
Bile-Tolerant Gram-Negative Bacteria	ND	1000	Pass
Yeast & Mold	ND	10000	Pass
Aerobic Bacteria	ND	100000	Pass
E.coli	ND		Pass
Salmonella	ND		Pass

Residual Solvents

✓ **PASS**

Date Started: 05/09/2025
Instrument: HS-GC-MS

Date Completed: 05/09/2025
Method: TP-09.005.03

Analyst: Garrett Lane
Deviation: N/A

Residual Solvent	Result (ppm)	LOD (ppm)	LOQ (ppm)	Limit (ppm)	Status
n-Propane	ND	0.396	1.56	12.0	Pass
Iso-butane	<LOQ	0.260	1.56	12.0	Pass
n-Butane	<LOQ	0.170	1.56	12.0	Pass
Methanol	ND	37.0	93.5	3000	Pass
Ethylene Oxide	ND	0.623	1.25		Pass
n-Pentane	ND	25.1	93.5	5000	Pass
Ethanol	ND	17.3	93.5	5000	Pass
Ethyl Ether	ND	23.6	93.5	5000	Pass
Acetone	ND	16.9	93.5	5000	Pass
Isopropyl Alcohol	ND	21.1	93.5	5000	Pass
Acetonitrile	ND	13.2	93.5	410	Pass
Methylene Chloride	ND	0.623	1.25	600	Pass
n-Hexane	ND	25.4	93.5	290	Pass
Ethyl Acetate	ND	14.7	93.5	5000	Pass
Chloroform	ND	0.623	1.25	60.0	Pass
1,2-Dichloroethane	ND	0.623	1.25	1870	Pass
Benzene	ND	0.623	1.25		Pass
n-Heptane	ND	27.2	93.5	5000	Pass
Trichloroethylene	ND	0.623	1.25	80.0	Pass
Toluene	ND	10.8	93.5	890	Pass
Total Xylenes	ND	18.4	46.8	2170	Pass

Mycotoxins

✓ **PASS**

Date Started: 05/09/2025
Instrument: LC-MS/MS

Date Completed: 05/12/2025
Method: TP-09.009.04

Analyst: Lana Rivera
Deviation: N/A

Mycotoxins	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	ND	0.0813	0.200		
Aflatoxin B2	ND	0.0161	0.150		
Aflatoxin G1	ND	0.0167	0.150		
Aflatoxin G2	ND	0.0424	0.200		
Ochratoxin A	ND	0.0463	0.150		
Total Mycotoxins	ND	0.0161	0.150	20.0	Pass

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Yuemin Wang Kovaleff, Lab
Manager
05/12/2025

END OF REPORT

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