



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: 22394

Sample Name: M00003785204: Charge Bar - Georgia Pie - Disposable Vape - 1g

Sample Type: Vape

Received Date: 01/10/2025

Report Date: 01/13/2025

METRC ID: 1A40A03000106E5000000123

METRC Source ID:

1A40A03000106E5000000122

Client Batch ID: N/A

Client Sample Size: 4.5 each

Results Summary

Cannabinoids

01/12/2025

TESTED

Vitamin E Acetate

01/13/2025

✓ PASS

Terpenes Extended

01/13/2025

TESTED

Heavy Metals

01/12/2025

✓ PASS

Microbial Impurities

01/13/2025

✓ PASS

Residual Solvents

01/13/2025

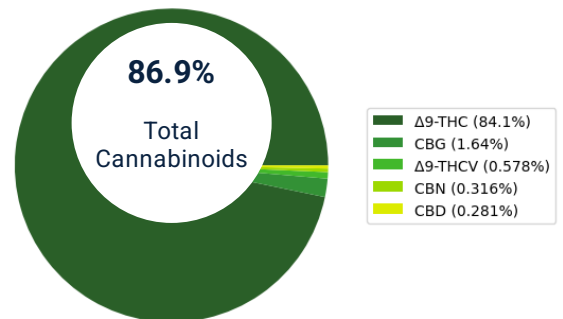
✓ PASS

Mycotoxins

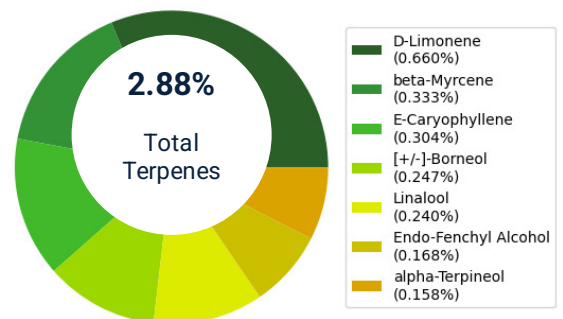
01/13/2025

✓ PASS

Cannabinoid Distribution (%)



Terpene Distribution (%)



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Certificate of Analysis

Cannabinoids

Date Started: 01/10/2025
Instrument: UPLC-PDA

Date Completed: 01/12/2025
Method: TP-09.001.05 & TP-09.012.05

Analyst: Yuemin Wang Kovaleff
Deviation: N/A

Cannabinoid	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
Δ9-THC	84.1	841	0.231	1.25
CBG	1.64	16.4	0.00542	0.0624
Δ9-THCV	0.578	5.78	0.00673	0.0499
CBN	0.316	3.16	0.00855	0.0624
CBD	0.281	2.81	0.00967	0.125
CBDVA	ND	ND	0.00840	0.0499
CBDV	ND	ND	0.0239	0.0499
CBDA	ND	ND	0.00787	0.125
CBGA	ND	ND	0.00489	0.0624
Δ8-THCV	ND	ND	0.0122	0.0499
THCVA	ND	ND	0.00530	0.0499
CBNA	ND	ND	0.00659	0.0499
Exo-THC	ND	ND	0.00999	0.0499
Δ8-THC	ND	ND	0.0219	0.0624
CBL	ND	ND	0.0148	0.0499
THCA	ND	ND	0.0200	0.125
CBC	ND	ND	0.00591	0.0499
CBCA	ND	ND	0.0161	0.0499
Total THC	84.1	841		
Total CBD	0.281	2.81		
Total Cannabinoids	86.9	869		

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: 01/10/2025
Instrument: HPLC-UV

Date Completed: 01/13/2025
Method: TP-09.006.01

Analyst: Yuemin Wang Kovaleff
Deviation: N/A

Analyte	Result (ppm)	LOD (ppm)	LOQ (ppm)	Status
Tocopheryl Acetate	ND	54.8	126	Pass

Certificate of Analysis

Terpenes Extended

Date Started: 01/10/2025
Instrument: GC-MS

Date Completed: 01/13/2025
Method: TP-09.004.03

Analyst: Garrett Lane
Deviation: N/A

Terpene	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
D-Limonene	0.660	6.60	0.00265	0.0126
beta-Myrcene	0.333	3.33	0.00211	0.0126
E-Caryophyllene	0.304	3.04	0.00551	0.0126
[+/-]-Borneol	0.247	2.47	0.00485	0.0251
Linalool	0.240	2.40	0.00383	0.0126
Endo-Fenchyl Alcohol	0.168	1.68	0.00418	0.0126
alpha-Terpineol	0.158	1.58	0.00474	0.0126
Geraniol	0.143	1.43	0.00391	0.0126
Geranyl Acetate	0.112	1.12	0.00589	0.0126
beta-Pinene	0.0888	0.888	0.00260	0.0126
Pulegone	0.0839	0.839	0.00476	0.0126
alpha-Pinene	0.0794	0.794	0.00105	0.0126
Isoborneol	0.0768	0.768	0.00269	0.0126
Sabinene	0.0610	0.610	0.00428	0.0126
alpha-Bisabolol	0.0497	0.497	0.00465	0.0126
alpha-Phellandrene	0.0235	0.235	0.00196	0.0126
Terpinolene	0.0190	0.190	0.00157	0.0126
Camphene	0.0154	0.154	0.00139	0.0126
E-beta-Ocimene	<LOQ	<LOQ	0.00519	0.0126
gamma-Terpinene	<LOQ	<LOQ	0.00284	0.0126
gamma-Terpineol	ND	ND	0.00225	0.0126
Isopulegol	ND	ND	0.00608	0.0126
Nerol	ND	ND	0.00396	0.0126
alpha-Humulene	ND	ND	0.00271	0.0126
Valencene	ND	ND	0.00331	0.0126
Z-Nerolidol	ND	ND	0.00340	0.0126
E-Nerolidol	ND	ND	0.00286	0.0126
Guaiol	ND	ND	0.00273	0.0126
Carophyllene Oxide	ND	ND	0.00284	0.0126
Eucalyptol	ND	ND	0.00381	0.0126
Sabinene Hydrate	ND	ND	0.00420	0.0126
Menthol	ND	ND	0.00419	0.0126
alpha-Cedrene	ND	ND	0.00381	0.0126
Cedrol	ND	ND	0.00511	0.0126
[+,N,-]-Camphor	ND	ND	0.00928	0.0377
delta-3-Carene	ND	ND	0.00410	0.0126
alpha-Terpinene	ND	ND	0.00385	0.0126
[+/-]-Fenchone	ND	ND	0.00278	0.0251
Z-beta-Ocimene	ND	ND	0.00508	0.0126
Total Terpenes	2.88	28.8		

Heavy Metals

 **PASS**

Date Started: 01/10/2025
Instrument: ICP-MS

Date Completed: 01/12/2025
Method: TP-09.007.01

Analyst: Meagan Mattos
Deviation: N/A

Heavy Metals	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Arsenic	ND	12.3	82.8	200	Pass
Cadmium	ND	7.36	82.8	200	Pass
Lead	ND	6.76	82.8	500	Pass
Mercury	ND	5.90	41.4	100	Pass

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Certificate of Analysis

Microbial Impurities

✓ **PASS**

Date Started: 01/10/2025
Instrument: TEMPO & Gene-Up

Date Completed: 01/13/2025
Method: TP-09.010.01 & TP-09.011.01

Analyst: Meagan Mattos
Deviation: N/A

Microbials	Result (CFU/g)	Limit (CFU/g)	Status
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Residual Solvents

✓ **PASS**

Date Started: 01/10/2025
Instrument: HS-GC-MS

Date Completed: 01/13/2025
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	0.309	1.22	12.0	Pass
Iso-butane	ND	0.203	1.22	12.0	Pass
n-Butane	ND	0.133	1.22	12.0	Pass
Methanol	ND	28.9	73.1	3000	Pass
Ethylene Oxide	ND	0.487	0.974		Pass
n-Pentane	ND	19.6	73.1	5000	Pass
Ethanol	<LOQ	13.6	73.1	5000	Pass
Ethyl Ether	ND	18.5	73.1	5000	Pass
Acetone	ND	13.3	73.1	5000	Pass
Isopropyl Alcohol	ND	16.5	73.1	5000	Pass
Acetonitrile	ND	10.3	73.1	410	Pass
Methylene Chloride	ND	0.487	0.974	600	Pass
n-Hexane	ND	19.9	73.1	290	Pass
Ethyl Acetate	ND	11.5	73.1	5000	Pass
Chloroform	ND	0.487	0.974	60.0	Pass
1,2-Dichloroethane	ND	0.487	0.974	1870	Pass
Benzene	ND	0.487	0.974		Pass
n-Heptane	ND	21.3	73.1	5000	Pass
Trichloroethylene	ND	0.487	0.974	80.0	Pass
Toluene	ND	8.42	73.1	890	Pass
Total Xylenes	ND	14.4	36.6	2170	Pass

Mycotoxins

✓ **PASS**

Date Started: 01/10/2025
Instrument: LC-MS/MS

Date Completed: 01/13/2025
Method: TP-09.009.04

Analyst: Lana Rivera
Deviation: N/A

Mycotoxins	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	ND	1.84	4.53		
Aflatoxin B2	ND	0.364	3.40		
Aflatoxin G1	ND	0.378	3.40		
Aflatoxin G2	ND	0.960	4.53		
Ochratoxin A	ND	1.05	3.40		
Total Mycotoxins	ND	0.364	3.40	20.0	Pass

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Certificate of Analysis

Yuemin Wang Kovaleff, Lab
Manager
01/13/2025

END OF REPORT

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