



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: 25361

Sample Name: M00003812904: Charge Bar -
Watermelon Splash X Georgia Pie - Dual
Chamber 2g Disposable Vape

Sample Type: Vape

Received Date: 03/20/2025

Report Date: 03/24/2025

METRC ID: 1A40A03000106E5000001135

METRC Source ID:
1A40A03000106E5000001134

Client Batch ID: N/A

Client Sample Size: 8 each



Results Summary

Vitamin E Acetate

03/22/2025

✓ PASS

Heavy Metals

03/24/2025

✓ PASS

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Certificate of Analysis

Vitamin E Acetate

✓ PASS

Date Started: 03/21/2025
Instrument: HPLC-UV

Date Completed: 03/22/2025
Method: TP-09.006.01

Analyst: Yuemin Wang Kovaleff
Deviation: N/A

Analyte	Result (ppm)	LOD (ppm)	LOQ (ppm)	Status
Tocopheryl Acetate	ND	46.4	106	Pass

Heavy Metals

✓ PASS

Date Started: 03/21/2025
Instrument: ICP-MS

Date Completed: 03/24/2025
Method: TP-09.007.01

Analyst: Meagan Mattos
Deviation: N/A

Heavy Metals	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Arsenic	ND	11.7	79.0	200	Pass
Cadmium	ND	7.02	79.0	200	Pass
Lead	ND	6.45	79.0	500	Pass
Mercury	ND	5.62	39.5	100	Pass



Yuemin Wang Kovaleff, Lab
Manager
03/24/2025

END OF REPORT



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71 Linden street
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Sample ID: 25361-1
Sample Name: Watermelon Splash Bulk Oil
Sample Type: Concentrate
Received Date: 03/20/2025
Report Date: 03/24/2025
METRC ID: 1A40A03000106E5000001135
METRC Source ID:
1A40A03000106E5000001134
Client Batch ID: N/A
Client Sample Size: 8 each

Results Summary

Cannabinoids

03/24/2025

TESTED

Terpenes Extended

03/24/2025

TESTED

Heavy Metals

03/24/2025

✓ PASS

Microbial Impurities

03/24/2025

✓ PASS

Residual Solvents

03/24/2025

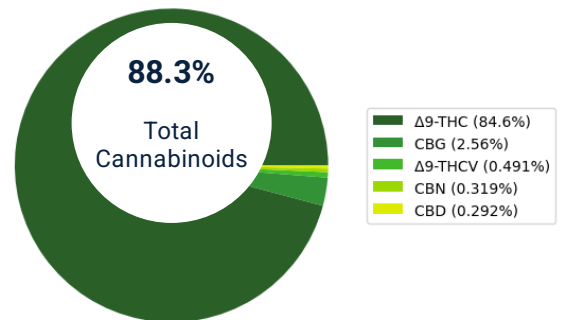
✓ PASS

Mycotoxins

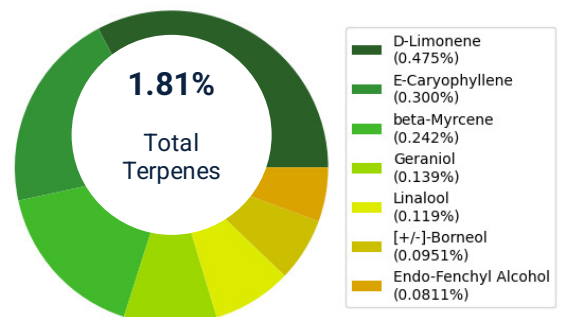
03/24/2025

✓ PASS

Cannabinoid Distribution (%)



Terpene Distribution (%)



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Cannabinoids

Date Started: 03/21/2025
Instrument: UPLC-PDA

Date Completed: 03/24/2025
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	84.6	846	0.244	1.32
CBG	2.56	25.6	0.00573	0.0659
Δ9-THCV	0.491	4.91	0.00711	0.0527
CBN	0.319	3.19	0.00903	0.0659
CBD	0.292	2.92	0.0102	0.132
CBDVA	ND	ND	0.00887	0.0527
CBDV	ND	ND	0.0252	0.0527
CBDA	ND	ND	0.00831	0.132
CBGA	ND	ND	0.00517	0.0659
Δ8-THCV	ND	ND	0.0129	0.0527
THCVA	ND	ND	0.00560	0.0527
CBNA	ND	ND	0.00696	0.0527
Exo-THC	ND	ND	0.0105	0.0527
Δ8-THC	ND	ND	0.0231	0.0659
CBL	ND	ND	0.0156	0.0527
THCA	ND	ND	0.0211	0.132
CBC	ND	ND	0.00625	0.0527
CBCA	ND	ND	0.0170	0.0527
Total THC	84.6	846		
Total CBD	0.292	2.92		
Total Cannabinoids	88.3	883		

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.

Certificate of Analysis

Terpenes Extended

Date Started: 03/21/2025
Instrument: GC-MS

Date Completed: 03/24/2025
Method: TP-09.004.03

Analyst: Garrett Lane
Deviation: N/A

Terpene	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
D-Limonene	0.475	4.75	0.00276	0.0131
E-Caryophyllene	0.300	3.00	0.00574	0.0131
beta-Myrcene	0.242	2.42	0.00220	0.0131
Geraniol	0.139	1.39	0.00407	0.0131
Linalool	0.119	1.19	0.00399	0.0131
[+/-]-Borneol	0.0951	0.951	0.00505	0.0262
Endo-Fenchyl Alcohol	0.0811	0.811	0.00435	0.0131
beta-Pinene	0.0703	0.703	0.00271	0.0131
alpha-Bisabolol	0.0684	0.684	0.00484	0.0131
alpha-Terpineol	0.0672	0.672	0.00494	0.0131
alpha-Pinene	0.0566	0.566	0.00110	0.0131
gamma-Terpineol	0.0241	0.241	0.00234	0.0131
Guaiol	0.0160	0.160	0.00285	0.0131
Terpinolene	0.0142	0.142	0.00163	0.0131
alpha-Humulene	<LOQ	<LOQ	0.00282	0.0131
Camphene	<LOQ	<LOQ	0.00144	0.0131
Carophyllene Oxide	<LOQ	<LOQ	0.00296	0.0131
Valencene	<LOQ	<LOQ	0.00345	0.0131
E-beta-Ocimene	ND	ND	0.00541	0.0131
Isopulegol	ND	ND	0.00634	0.0131
Nerol	ND	ND	0.00412	0.0131
Pulegone	ND	ND	0.00496	0.0131
Z-Nerolidol	ND	ND	0.00355	0.0131
E-Nerolidol	ND	ND	0.00298	0.0131
Eucalyptol	ND	ND	0.00396	0.0131
Sabinene	ND	ND	0.00446	0.0131
alpha-Phellandrene	ND	ND	0.00204	0.0131
Sabinene Hydrate	ND	ND	0.00437	0.0131
Isoborneol	ND	ND	0.00280	0.0131
Menthol	ND	ND	0.00436	0.0131
alpha-Cedrene	ND	ND	0.00396	0.0131
Geranyl Acetate	ND	ND	0.00614	0.0131
Cedrol	ND	ND	0.00532	0.0131
[+,N,-]-Camphor	ND	ND	0.00967	0.0392
delta-3-Carene	ND	ND	0.00427	0.0131
alpha-Terpinene	ND	ND	0.00401	0.0131
[+/-]-Fenchone	ND	ND	0.00290	0.0262
Z-beta-Ocimene	ND	ND	0.00529	0.0131
gamma-Terpinene	ND	ND	0.00296	0.0131
Total Terpenes	1.81	18.1		

Heavy Metals

 **PASS**

Date Started: 03/21/2025
Instrument: ICP-MS

Date Completed: 03/24/2025
Method: TP-09.007.01

Analyst: Meagan Mattos
Deviation: N/A

Heavy Metals	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Arsenic	ND	10.9	73.8	200	Pass
Cadmium	ND	6.55	73.8	200	Pass
Lead	ND	6.02	73.8	500	Pass
Mercury	ND	5.25	36.9	100	Pass

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Microbial Impurities

✓ **PASS**

Date Started: 03/20/2025
Instrument: TEMPO & Gene-Up

Date Completed: 03/24/2025
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	100	Pass
Bile-Tolerant Gram-Negative Bacteria	ND	100	Pass
Yeast & Mold	ND	1000	Pass
Aerobic Bacteria	ND	10000	Pass
E.coli	ND		Pass
Salmonella	ND		Pass

Residual Solvents

✓ **PASS**

Date Started: 03/24/2025
Instrument: HS-GC-MS

Date Completed: 03/24/2025
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	0.408	1.60	12.0	Pass
Iso-butane	ND	0.269	1.60	12.0	Pass
n-Butane	ND	0.176	1.60	12.0	Pass
Methanol	ND	38.2	96.5	3000	Pass
Ethylene Oxide	ND	0.643	1.29		Pass
n-Pentane	ND	25.9	96.5	5000	Pass
Ethanol	ND	17.9	96.5	5000	Pass
Ethyl Ether	ND	24.4	96.5	5000	Pass
Acetone	ND	17.5	96.5	5000	Pass
Isopropyl Alcohol	ND	21.8	96.5	5000	Pass
Acetonitrile	ND	13.6	96.5	410	Pass
Methylene Chloride	ND	0.643	1.29	600	Pass
n-Hexane	ND	26.2	96.5	290	Pass
Ethyl Acetate	ND	15.1	96.5	5000	Pass
Chloroform	ND	0.643	1.29	60.0	Pass
1,2-Dichloroethane	ND	0.643	1.29	1870	Pass
Benzene	ND	0.643	1.29		Pass
n-Heptane	ND	28.1	96.5	5000	Pass
Trichloroethylene	ND	0.643	1.29	80.0	Pass
Toluene	ND	11.1	96.5	890	Pass
Total Xylenes	ND	19.0	48.3	2170	Pass

Mycotoxins

✓ **PASS**

Date Started: 03/21/2025
Instrument: LC-MS/MS

Date Completed: 03/24/2025
Method: TP-09.009.04

Analyst: Lana Rivera
Deviation: N/A

Mycotoxins	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	ND	2.07	5.10		
Aflatoxin B2	ND	0.411	3.82		
Aflatoxin G1	ND	0.426	3.82		
Aflatoxin G2	ND	1.08	5.10		
Ochratoxin A	ND	1.18	3.82		
Total Mycotoxins	ND	0.411	3.82	20.0	Pass

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Yuemin Wang Kovaleff, Lab
Manager
03/24/2025

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71 Linden street
Lynn MA 01905

Phone: 978-569-4063

License #: MC282139



Sample ID: 25361-2
Sample Name: Georgia Pie Bulk Oil
Sample Type: Concentrate
Received Date: 03/20/2025
Report Date: 03/24/2025
METRC ID: 1A40A03000106E5000001135
METRC Source ID:
1A40A03000106E5000001134
Client Batch ID: N/A
Client Sample Size: 8 each

Results Summary

Cannabinoids

03/24/2025

TESTED

Terpenes Extended

03/24/2025

TESTED

Heavy Metals

03/24/2025

✓ PASS

Microbial Impurities

03/24/2025

✓ PASS

Residual Solvents

03/24/2025

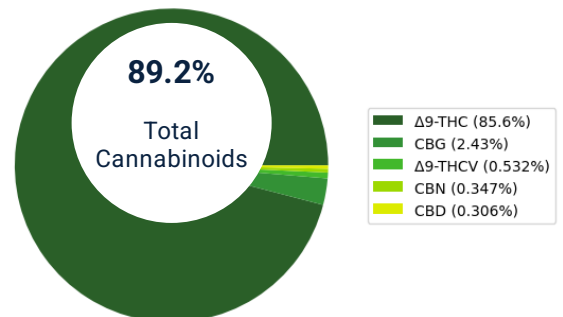
✓ PASS

Mycotoxins

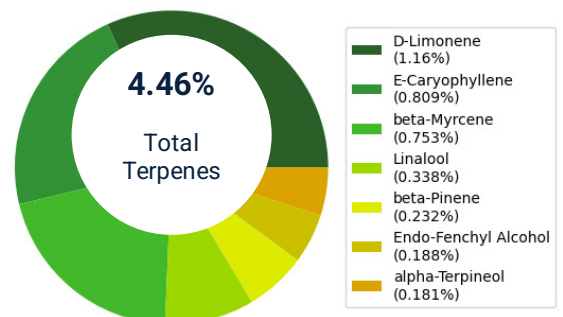
03/24/2025

✓ PASS

Cannabinoid Distribution (%)



Terpene Distribution (%)



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Cannabinoids

Date Started: 03/21/2025
Instrument: UPLC-PDA

Date Completed: 03/24/2025
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	85.6	856	0.273	1.48
CBG	2.43	24.3	0.00642	0.0739
Δ9-THCV	0.532	5.32	0.00797	0.0591
CBN	0.347	3.47	0.0101	0.0739
CBD	0.306	3.06	0.0114	0.148
CBDVA	ND	ND	0.00994	0.0591
CBDV	ND	ND	0.0283	0.0591
CBDA	ND	ND	0.00931	0.148
CBGA	ND	ND	0.00579	0.0739
Δ8-THCV	ND	ND	0.0144	0.0591
THCVA	ND	ND	0.00628	0.0591
CBNA	ND	ND	0.00780	0.0591
Exo-THC	ND	ND	0.0118	0.0591
Δ8-THC	ND	ND	0.0259	0.0739
CBL	ND	ND	0.0175	0.0591
THCA	ND	ND	0.0236	0.148
CBC	ND	ND	0.00700	0.0591
CBCA	ND	ND	0.0190	0.0591
Total THC	85.6	856		
Total CBD	0.306	3.06		
Total Cannabinoids	89.2	892		

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.

Terpenes Extended

Date Started: 03/21/2025
Instrument: GC-MS

Date Completed: 03/24/2025
Method: TP-09.004.03

Analyst: Garrett Lane
Deviation: N/A

Terpene	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
D-Limonene	1.16	11.6	0.00323	0.0153
E-Caryophyllene	0.809	8.09	0.00671	0.0153
beta-Myrcene	0.753	7.53	0.00257	0.0153
Linalool	0.338	3.38	0.00466	0.0153
beta-Pinene	0.232	2.32	0.00317	0.0153
Endo-Fenchyl Alcohol	0.188	1.88	0.00509	0.0153
alpha-Terpineol	0.181	1.81	0.00577	0.0153
alpha-Pinene	0.181	1.81	0.00128	0.0153
Geraniol	0.162	1.62	0.00476	0.0153
alpha-Bisabolol	0.155	1.55	0.00566	0.0153
[+/-]-Borneol	0.101	1.01	0.00590	0.0306
Z-beta-Ocimene	0.0668	0.668	0.00619	0.0153
Terpinolene	0.0391	0.391	0.00191	0.0153
Camphene	0.0356	0.356	0.00169	0.0153
alpha-Humulene	0.0299	0.299	0.00330	0.0153
Carophyllene Oxide	0.0158	0.158	0.00346	0.0153
Guaiol	<LOQ	<LOQ	0.00333	0.0153
E-beta-Ocimene	ND	ND	0.00632	0.0153
gamma-Terpineol	ND	ND	0.00274	0.0153
Isopulegol	ND	ND	0.00741	0.0153
Nerol	ND	ND	0.00482	0.0153
Pulegone	ND	ND	0.00579	0.0153
Valencene	ND	ND	0.00403	0.0153
Z-Nerolidol	ND	ND	0.00414	0.0153
E-Nerolidol	ND	ND	0.00348	0.0153
Eucalyptol	ND	ND	0.00463	0.0153
Sabinene	ND	ND	0.00521	0.0153
alpha-Phellandrene	ND	ND	0.00238	0.0153
Sabinene Hydrate	ND	ND	0.00511	0.0153
Isoborneol	ND	ND	0.00328	0.0153
Menthol	ND	ND	0.00510	0.0153
alpha-Cedrene	ND	ND	0.00463	0.0153
Geranyl Acetate	ND	ND	0.00718	0.0153
Cedrol	ND	ND	0.00622	0.0153
[+,N,-]-Camphor	ND	ND	0.0113	0.0458
delta-3-Carene	ND	ND	0.00499	0.0153
alpha-Terpinene	ND	ND	0.00468	0.0153
[+/-]-Fenchone	ND	ND	0.00339	0.0306
gamma-Terpinene	ND	ND	0.00346	0.0153
Total Terpenes	4.46	44.6		

Heavy Metals

 **PASS**

Date Started: 03/21/2025
Instrument: ICP-MS

Date Completed: 03/24/2025
Method: TP-09.007.01

Analyst: Meagan Mattos
Deviation: N/A

Heavy Metals	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Arsenic	ND	10.9	73.7	200	Pass
Cadmium	ND	6.54	73.7	200	Pass
Lead	ND	6.01	73.7	500	Pass
Mercury	ND	5.25	36.8	100	Pass

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Microbial Impurities

✓ **PASS**

Date Started: 03/20/2025
Instrument: TEMPO & Gene-Up

Date Completed: 03/24/2025
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	100	Pass
Bile-Tolerant Gram-Negative Bacteria	ND	100	Pass
Yeast & Mold	ND	1000	Pass
Aerobic Bacteria	ND	10000	Pass
E.coli	ND		Pass
Salmonella	ND		Pass

Residual Solvents

✓ **PASS**

Date Started: 03/24/2025
Instrument: HS-GC-MS

Date Completed: 03/24/2025
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	0.381	1.50	12.0	Pass
Iso-butane	ND	0.250	1.50	12.0	Pass
n-Butane	ND	0.164	1.50	12.0	Pass
Methanol	ND	35.6	90.0	3000	Pass
Ethylene Oxide	ND	0.600	1.20		Pass
n-Pentane	ND	24.2	90.0	5000	Pass
Ethanol	ND	16.7	90.0	5000	Pass
Ethyl Ether	ND	22.7	90.0	5000	Pass
Acetone	ND	16.3	90.0	5000	Pass
Isopropyl Alcohol	ND	20.3	90.0	5000	Pass
Acetonitrile	ND	12.7	90.0	410	Pass
Methylene Chloride	ND	0.600	1.20	600	Pass
n-Hexane	ND	24.5	90.0	290	Pass
Ethyl Acetate	ND	14.1	90.0	5000	Pass
Chloroform	ND	0.600	1.20	60.0	Pass
1,2-Dichloroethane	ND	0.600	1.20	1870	Pass
Benzene	ND	0.600	1.20		Pass
n-Heptane	ND	26.2	90.0	5000	Pass
Trichloroethylene	ND	0.600	1.20	80.0	Pass
Toluene	ND	10.4	90.0	890	Pass
Total Xylenes	ND	17.8	45.0	2170	Pass

Mycotoxins

✓ **PASS**

Date Started: 03/21/2025
Instrument: LC-MS/MS

Date Completed: 03/24/2025
Method: TP-09.009.04

Analyst: Lana Rivera
Deviation: N/A

Mycotoxins	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	ND	2.03	4.99		
Aflatoxin B2	ND	0.401	3.74		
Aflatoxin G1	ND	0.416	3.74		
Aflatoxin G2	ND	1.06	4.99		
Ochratoxin A	ND	1.15	3.74		
Total Mycotoxins	ND	0.401	3.74	20.0	Pass

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Certificate of Analysis

Yuemin Wang Kovaleff, Lab
Manager
03/24/2025

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