



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

Certificate of Analysis



Customer: Bay State Extracts

Address:

3065 Cranberry Highway
 East Wareham MA 02538

Phone: 800-847-4427

License #: MDAR 25200133P

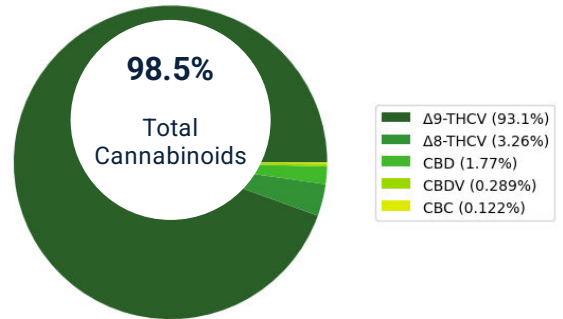


Sample ID: 7934
Sample Name: THCv Isolate
Sample Type: Isolate
Received Date: 10/17/2023
Report Date: 10/21/2023
METRC ID: N/A
Client Batch ID: 23278V
Client Sample Size: 10 g

Results Summary

Cannabinoids	TESTED
10/19/2023	
Heavy Metals	✓ PASS
10/21/2023	
Microbial Impurities	✓ PASS
10/21/2023	
Residual Solvents	✓ PASS
10/21/2023	
Mycotoxins	✓ PASS
10/19/2023	

Cannabinoid Distribution (%)



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Cannabinoids

Date Started: 10/18/2023
Instrument: UPLC-PDA

Date Completed: 10/19/2023
Method: TP-09.001.05 & TP-09.012.05

Analyst: Yuemin Wang Kovaleff
Deviation: N/A

Cannabinoid	Result (%)	Result (mg/g)	LOQ (%)
Δ9-THCV	93.1	931	0.944
Δ8-THCV	3.26	32.6	0.0472
CBD	1.77	17.7	0.118
CBDV	0.289	2.89	0.0472
CBC	0.122	1.22	0.0472
CBDVA	ND	ND	0.0472
CBDA	ND	ND	0.118
CBGA	ND	ND	0.0590
CBG	ND	ND	0.0590
THCVA	ND	ND	0.0472
CBN	ND	ND	0.0590
CBNA	ND	ND	0.0472
Exo-THC	ND	ND	0.0472
Δ9-THC	ND	ND	0.118
Δ8-THC	ND	ND	0.0590
CBL	ND	ND	0.0472
THCA-A	ND	ND	0.118
CBCA	ND	ND	0.0472
Total THC	ND	ND	
Total CBD	1.77	17.7	
Total Cannabinoids	98.5	985	

Total THC = Δ9-THC + Δ8-THC + (THCA-A 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.

Heavy Metals

✓ PASS

Date Started: 10/19/2023
Instrument: ICP-MS

Date Completed: 10/21/2023
Method: TP-09.007.01

Analyst: Lana Rivera
Deviation: N/A

Heavy Metals	LOQ (ppb)	Limit (ppb)	Status
Arsenic	55.9	200	Pass
Cadmium	55.9	200	Pass
Lead	55.9	500	Pass
Mercury	27.9	100	Pass

Microbial Impurities

✓ PASS

Date Started: 10/17/2023
Instrument: TEMPO & Gene-Up

Date Completed: 10/21/2023
Method: TP-09.010.01 & TP-09.011.01

Analyst: Lana Rivera
Deviation: N/A

Microbials	Limit (CFU/g)	Status
Coliforms	100	Pass
Bile-Tolerant Gram-Negative Bacteria	100	Pass
Yeast & Mold	1000	Pass
Aerobic Bacteria	10000	Pass
E.coli		Pass
Salmonella		Pass

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Residual Solvents

✓ PASS

Date Started: 10/19/2023
Instrument: HS-GC-MS

Date Completed: 10/21/2023
Method: TP-09.005.03

Analyst: Yuemin Wang Kovaleff
Deviation: N/A

Residual Solvent	LOQ (ppm)	Limit (ppm)	Status
n-Propane	1.46	12.0	Pass
Iso-butane	1.46	12.0	Pass
n-Butane	1.46	12.0	Pass
Methanol	87.9	3000	Pass
Ethylene Oxide	0.586		Pass
n-Pentane	87.9	5000	Pass
Ethanol	87.9	5000	Pass
Ethyl Ether	87.9	5000	Pass
Acetone	87.9	5000	Pass
Isopropyl Alcohol	87.9	5000	Pass
Acetonitrile	87.9	410	Pass
Methylene Chloride	0.586	600	Pass
n-Hexane	87.9	290	Pass
Ethyl Acetate	87.9	5000	Pass
Chloroform	0.586	60.0	Pass
1,2-Dichloroethane	0.586	1870	Pass
Benzene	0.586		Pass
n-Heptane	87.9	5000	Pass
Trichloroethylene	0.586	80.0	Pass
Toluene	87.9	890	Pass
Total Xylenes	44.0	2170	Pass

Mycotoxins

✓ PASS

Date Started: 10/18/2023
Instrument: LC-MS/MS

Date Completed: 10/19/2023
Method: TP-09.009.04

Analyst: Yuemin Wang Kovaleff
Deviation: N/A

Mycotoxins	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	4.21		
Aflatoxin B2	3.16		
Aflatoxin G1	3.16		
Aflatoxin G2	4.21		
Ochratoxin A	3.16		
Total Mycotoxins	3.16	20.0	Pass

Eric Steele, Lab Director
10/21/2023

END OF REPORT

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