

Certificate of Analysis



Customer: Bay State Extracts

Address:

3065 Cranberry Highway
 East Wareham MA 02538

Phone: 800-847-4427

License #: MDAR 25200133P



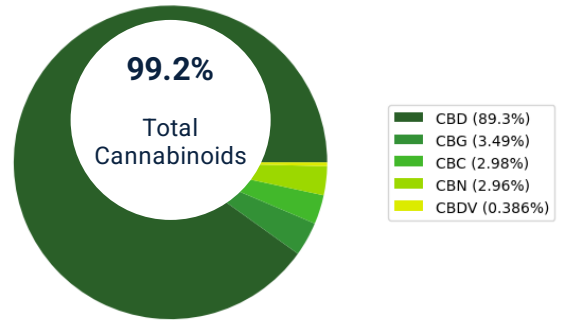
Sample ID: 28272
Sample Name: CBD Broad Spec
Sample Type: Concentrate
Received Date: 05/23/2025
Report Date: 05/28/2025
METRC ID: N/A
Client Batch ID: 25140BS
Client Sample Size: 10 grams



Results Summary

Cannabinoids	TESTED
05/27/2025	
Heavy Metals	✓ PASS
05/28/2025	
Microbial Impurities	✓ PASS
05/27/2025	
Residual Solvents	✓ PASS
05/28/2025	
Mycotoxins	✓ PASS
05/28/2025	

Cannabinoid Distribution (%)



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SMITHERS

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

Certificate of Analysis

Cannabinoids

Date Started: 05/23/2025
Instrument: UPLC-PDA

Date Completed: 05/27/2025
Method: TP-09.001.05 & TP-09.012.05

Analyst: Yuemin Wang Kovaleff
Deviation: N/A

Cannabinoid	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
CBD	89.3	893	0.106	1.37
CBG	3.49	34.9	0.00595	0.0685
CBC	2.98	29.8	0.00649	0.0548
CBN	2.96	29.6	0.00938	0.0685
CBDV	0.386	3.86	0.0262	0.0548
CBDVA	ND	ND	0.00922	0.0548
CBDA	ND	ND	0.00864	0.137
CBGA	ND	ND	0.00537	0.0685
Δ9-THCV	ND	ND	0.00739	0.0548
Δ8-THCV	ND	ND	0.0134	0.0548
THCVA	ND	ND	0.00582	0.0548
CBNA	ND	ND	0.00723	0.0548
Exo-THC	ND	ND	0.0110	0.0548
Δ9-THC	ND	ND	0.0253	0.137
Δ8-THC	ND	ND	0.0240	0.0685
CBL	ND	ND	0.0162	0.0548
THCA	ND	ND	0.0219	0.137
CBCA	ND	ND	0.0176	0.0548
Total THC	ND	ND		
Total CBD	89.3	893		
Total Cannabinoids	99.2	992		

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.

Heavy Metals

✓ PASS

Date Started: 05/27/2025
Instrument: ICP-MS

Date Completed: 05/28/2025
Method: TP-09.007.01

Analyst: Meagan Mattos
Deviation: N/A

Heavy Metals	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Arsenic	ND	11.6	78.5	200	Pass
Cadmium	ND	6.97	78.5	200	Pass
Lead	ND	6.40	78.5	500	Pass
Mercury	ND	5.59	39.2	100	Pass

Microbial Impurities

✓ PASS

Date Started: 05/23/2025
Instrument: TEMPO & Gene-Up

Date Completed: 05/27/2025
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

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SMITHERS

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Wareham, MA 02571
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Phone: 508-295-2550

Certificate of Analysis

PASS

Residual Solvents

Date Started: 05/27/2025
Instrument: HS-GC-MS

Date Completed: 05/28/2025
Method: TP-09.005.03

Analyst: Garrett Lane
Deviation: N/A

Residual Solvent	Result (ppm)	LOD (ppm)	LOQ (ppm)	Limit (ppm)	Status
n-Propane	1.68	0.420	1.65	12.0	Pass
Iso-butane	ND	0.276	1.65	12.0	Pass
n-Butane	<LOQ	0.181	1.65	12.0	Pass
Methanol	ND	39.3	99.3	3000	Pass
Ethylene Oxide	ND	0.661	1.32		Pass
n-Pentane	169	26.7	99.3	5000	Pass
Ethanol	<LOQ	18.4	99.3	5000	Pass
Ethyl Ether	ND	25.1	99.3	5000	Pass
Acetone	ND	18.0	99.3	5000	Pass
Isopropyl Alcohol	ND	22.4	99.3	5000	Pass
Acetonitrile	ND	14.0	99.3	410	Pass
Methylene Chloride	ND	0.661	1.32	600	Pass
n-Hexane	ND	27.0	99.3	290	Pass
Ethyl Acetate	ND	15.6	99.3	5000	Pass
Chloroform	ND	0.661	1.32	60.0	Pass
1,2-Dichloroethane	ND	0.661	1.32	1870	Pass
Benzene	ND	0.661	1.32		Pass
n-Heptane	<LOQ	28.9	99.3	5000	Pass
Trichloroethylene	ND	0.661	1.32	80.0	Pass
Toluene	ND	11.4	99.3	890	Pass
Total Xylenes	ND	19.6	49.6	2170	Pass

Mycotoxins

PASS

Date Started: 05/27/2025
Instrument: LC-MS/MS

Date Completed: 05/28/2025
Method: TP-09.009.04

Analyst: Lana Rivera
Deviation: N/A

Mycotoxins	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	ND	1.66	4.09		
Aflatoxin B2	ND	0.329	3.07		
Aflatoxin G1	ND	0.342	3.07		
Aflatoxin G2	ND	0.867	4.09		
Ochratoxin A	ND	0.947	3.07		
Total Mycotoxins	ND	0.329	3.07	20.0	Pass

Yuemin Wang Kovaleff, Lab
Manager
05/28/2025

END OF REPORT

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