



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

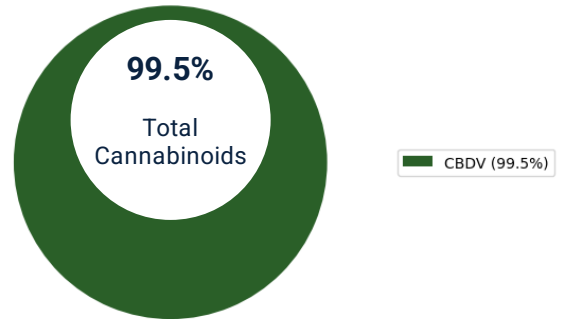


Sample ID: 2326
Sample Name: CBDV Isolate
Sample Type: Isolate
Received Date: 09/20/2022
Report Date: 09/26/2022
METRC ID: N/A
Client Batch ID: N/A
Client Sample Size:

Results Summary

Cannabinoids 09/23/2022	TESTED
Heavy Metals 09/23/2022	✓ PASS
Microbial Impurities 09/26/2022	✓ PASS
Residual Solvents 09/21/2022	✓ PASS
Mycotoxins 09/23/2022	✓ PASS

Cannabinoid Distribution (%)



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Cannabinoids

Date Started: 09/20/2022
Instrument: UPLC-PDA

Date Completed: 09/23/2022
Method: TP-09.001.03 & TP-09.012.02

Analyst: Yuemin Wang Kovaleff
Deviation: N/A

Cannabinoid	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
CBDV	99.51	995	0.00492	0.0189
CBDVA	ND	ND	0.00241	0.0189
CBDA	ND	ND	0.00694	0.0473
CBGA	ND	ND	0.00586	0.0237
CBG	ND	ND	0.00568	0.0237
CBD	ND	ND	0.00658	0.0473
Δ9-THCV	ND	ND	0.0118	0.0189
Δ8-THCV	ND	ND	0.00705	0.0237
THCVA	ND	ND	0.0119	0.0189
CBN	ND	ND	0.00548	0.0237
CBNA	ND	ND	0.00894	0.0189
Exo-THC	ND	ND	0.0140	0.0189
Δ9-THC	ND	ND	0.00667	0.0473
Δ8-THC	ND	ND	0.0166	0.0237
CBL	ND	ND	0.00620	0.0189
THCA-A	ND	ND	0.00620	0.0473
CBC	ND	ND	0.00624	0.0189
CBCA	ND	ND	0.0167	0.0189
Total THC	ND	ND		
Total CBD	ND	ND		
Total Cannabinoids	99.51	995		

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: 09/21/2022
Instrument: ICP-MS

Date Completed: 09/23/2022
Method: TP-09.007.01

Analyst: Lana Rivera
Deviation: N/A

Heavy Metals	LOQ (ppb)	Limit (ppb)	Status
Arsenic	54.1	200	Pass
Cadmium	54.1	200	Pass
Lead	54.1	500	Pass
Mercury	27.0	100	Pass

Microbial Impurities

✓ PASS

Date Started: 09/21/2022
Instrument: TEMPO & Gene-Up

Date Completed: 09/26/2022
Method: TP-09.010.01 & TP-09.011.01

Analyst: Elliot Henderson
Deviation: N/A

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

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Residual Solvents

✓ PASS

Date Started: 09/21/2022
Instrument: HS-GC-MS

Date Completed: 09/21/2022
Method: TP-09.005.03

Analyst: Yuemin Wang Kovaleff
Deviation: N/A

Residual Solvent	LOQ (ppm)	Limit (ppm)	Status
n-Propane	1.32	12.0	Pass
Iso-butane	1.32	12.0	Pass
n-Butane	1.32	12.0	Pass
Methanol	79.2	3000	Pass
Ethylene Oxide	0.528		Pass
n-Pentane	79.2	5000	Pass
Ethanol	79.2	5000	Pass
Ethyl Ether	79.2	5000	Pass
Acetone	79.2	5000	Pass
Isopropyl Alcohol	79.2	5000	Pass
Acetonitrile	79.2	410	Pass
Methylene Chloride	0.528	600	Pass
n-Hexane	79.2	290	Pass
Ethyl Acetate	79.2	5000	Pass
Chloroform	0.528	60.0	Pass
1,2-Dichloroethane	0.528	1870	Pass
Benzene	0.528		Pass
n-Heptane	79.2	5000	Pass
Trichloroethylene	0.528	80.0	Pass
Toluene	79.2	890	Pass
Total Xylenes	39.6	2170	Pass

Mycotoxins

✓ PASS

Date Started: 09/22/2022
Instrument: LC-MS/MS

Date Completed: 09/23/2022
Method: TP-09.009.01

Analyst: Yuemin Wang Kovaleff
Deviation: N/A

Mycotoxins	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	4.45		
Aflatoxin B2	3.34		
Aflatoxin G1	3.34		
Aflatoxin G2	4.45		
Ochratoxin A	3.34		
Total Mycotoxins	3.34	20.0	Pass

Eric Steele, Lab Director
09/26/2022

END OF REPORT

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