



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

Certificate of Analysis



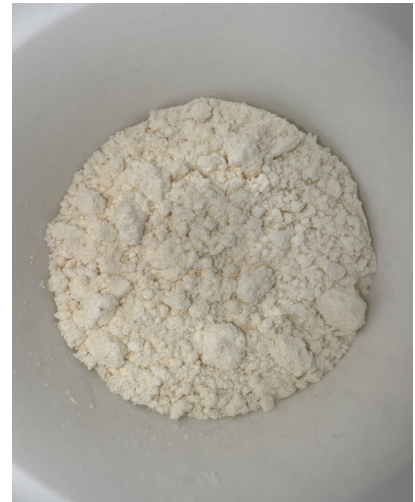
Customer: Bay State Extracts

Address:

3065 Cranberry Highway
 East Wareham MA 02538

Phone: 800-847-4427

License #: MDAR 25200133P

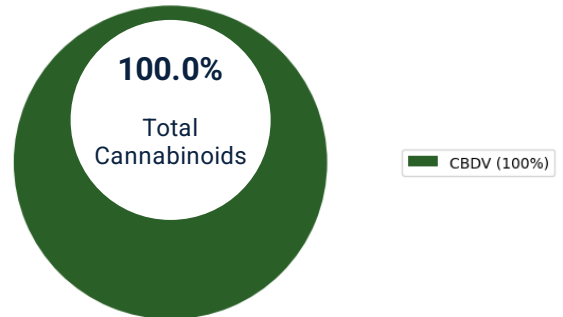


Sample ID: 15598
Sample Name: CBDV Isolate
Sample Type: Isolate
Received Date: 07/25/2024
Report Date: 07/30/2024
METRC ID: N/A
Client Batch ID: 21303V
Client Sample Size: 10 grams

Results Summary

Cannabinoids 07/29/2024	TESTED
Heavy Metals 07/30/2024	✓ PASS
Microbial Impurities 07/29/2024	✓ PASS
Residual Solvents 07/29/2024	✓ PASS
Mycotoxins 07/30/2024	✓ PASS

Cannabinoid Distribution (%)



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Cannabinoids

Date Started: 07/26/2024

Instrument: UPLC-PDA

Date Completed: 07/29/2024

Method: TP-09.001.05 & TP-09.012.05

Analyst: Yuemin Wang Kovaleff

Deviation: N/A

Cannabinoid	Result (%)	Result (mg/g)	LOQ (%)
CBDV	99.99	1000	3.02
CBDVA	ND	ND	0.0755
CBDA	ND	ND	0.189
CBGA	ND	ND	0.0943
CBG	ND	ND	0.0943
CBD	ND	ND	0.189
Δ9-THCV	ND	ND	0.0755
Δ8-THCV	ND	ND	0.0755
THCVA	ND	ND	0.0755
CBN	ND	ND	0.0943
CBNA	ND	ND	0.0755
Exo-THC	ND	ND	0.0755
Δ9-THC	ND	ND	0.189
Δ8-THC	ND	ND	0.0943
CBL	ND	ND	0.0755
THCA-A	ND	ND	0.189
CBC	ND	ND	0.0755
CBCA	ND	ND	0.0755
Total THC	ND	ND	
Total CBD	ND	ND	
Total Cannabinoids	99.99	1000	

Total THC = Δ9-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: 07/29/2024

Instrument: ICP-MS

Date Completed: 07/30/2024

Method: TP-09.007.01

Analyst: Meagan Mattos

Deviation: N/A

Heavy Metals	LOQ (ppb)	Limit (ppb)	Status
Arsenic	50.0	200	Pass
Cadmium	50.0	200	Pass
Lead	50.0	500	Pass
Mercury	25.0	100	Pass

Microbial Impurities

✓ PASS

Date Started: 07/26/2024

Instrument: TEMPO & Gene-Up

Date Completed: 07/29/2024

Method: TP-09.010.01 & TP-09.011.01

Analyst: Meagan Mattos

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: 07/26/2024
Instrument: HS-GC-MS

Date Completed: 07/29/2024
Method: TP-09.005.03

Analyst: Yuemin Wang Kovaleff
Deviation: N/A

Residual Solvent	LOQ (ppm)	Limit (ppm)	Status
n-Propane	1.23	12.0	Pass
Iso-butane	1.23	12.0	Pass
n-Butane	1.23	12.0	Pass
Methanol	73.7	3000	Pass
Ethylene Oxide	0.982		Pass
n-Pentane	73.7	5000	Pass
Ethanol	73.7	5000	Pass
Ethyl Ether	73.7	5000	Pass
Acetone	73.7	5000	Pass
Acetonitrile	73.7	410	Pass
n-Hexane	73.7	290	Pass
Ethyl Acetate	73.7	5000	Pass
Chloroform	0.982	60.0	Pass
1,2-Dichloroethane	0.982	1870	Pass
Benzene	0.982		Pass
n-Heptane	73.7	5000	Pass
Trichloroethylene	0.982	80.0	Pass

Mycotoxins

✓ PASS

Date Started: 07/29/2024
Instrument: LC-MS/MS

Date Completed: 07/30/2024
Method: TP-09.009.04

Analyst: Lana Rivera
Deviation: N/A

Mycotoxins	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	5.32		
Aflatoxin B2	3.99		
Aflatoxin G1	3.99		
Aflatoxin G2	5.32		
Ochratoxin A	3.99		
Total Mycotoxins	3.99	20.0	Pass

Eric Steele, Lab Director
07/30/2024

END OF REPORT

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