



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

Certificate of Analysis



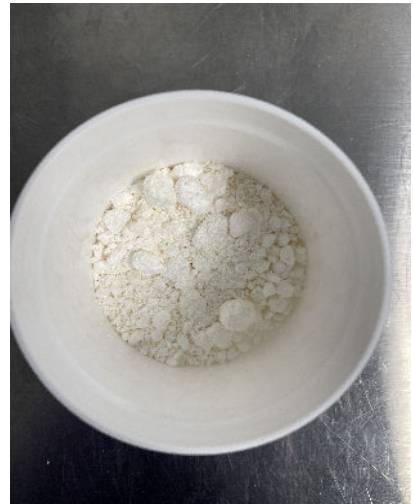
Customer: Bay State Extracts

Address:

3065 Cranberry Highway
 East Wareham MA 02538

Phone: 800-847-4427

License #: MDAR 25200133P

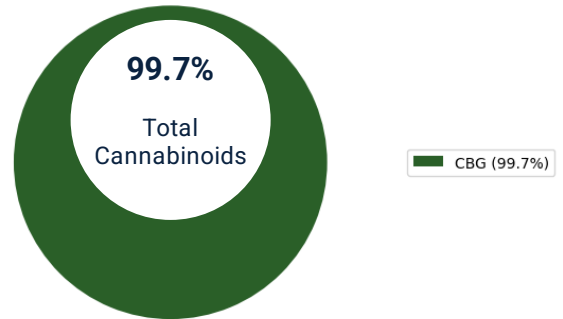


Sample ID: 7932
Sample Name: CBG Isolate
Sample Type: Isolate
Received Date: 10/17/2023
Report Date: 10/21/2023
METRC ID: N/A
Client Batch ID: 23290G
Client Sample Size: 10 g

Results Summary

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

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 (%)
CBG	99.72	997	1.13
CBDVA	ND	ND	0.0452
CBDV	ND	ND	0.0452
CBDA	ND	ND	0.113
CBGA	ND	ND	0.0565
CBD	ND	ND	0.113
Δ9-THCV	ND	ND	0.0452
Δ8-THCV	ND	ND	0.0452
THCVA	ND	ND	0.0452
CBN	ND	ND	0.0565
CBNA	ND	ND	0.0452
Exo-THC	ND	ND	0.0452
Δ9-THC	ND	ND	0.113
Δ8-THC	ND	ND	0.0565
CBL	ND	ND	0.0452
THCA-A	ND	ND	0.113
CBC	ND	ND	0.0452
CBCA	ND	ND	0.0452
Total THC	ND	ND	
Total CBD	ND	ND	
Total Cannabinoids	99.72	997	

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	56.1	200	Pass
Cadmium	56.1	200	Pass
Lead	56.1	500	Pass
Mercury	28.1	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	1.47	12.0	Pass
Iso-butane	1.47	12.0	Pass
n-Butane	1.47	12.0	Pass
Methanol	88.2	3000	Pass
Ethylene Oxide	0.588		Pass
n-Pentane	88.2	5000	Pass
Ethanol	88.2	5000	Pass
Ethyl Ether	88.2	5000	Pass
Acetone	88.2	5000	Pass
Isopropyl Alcohol	88.2	5000	Pass
Acetonitrile	88.2	410	Pass
Methylene Chloride	0.588	600	Pass
n-Hexane	88.2	290	Pass
Ethyl Acetate	88.2	5000	Pass
Chloroform	0.588	60.0	Pass
1,2-Dichloroethane	0.588	1870	Pass
Benzene	0.588		Pass
n-Heptane	88.2	5000	Pass
Trichloroethylene	0.588	80.0	Pass
Toluene	88.2	890	Pass
Total Xylenes	44.1	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	4.71		
Aflatoxin B2	3.53		
Aflatoxin G1	3.53		
Aflatoxin G2	4.71		
Ochratoxin A	3.53		
Total Mycotoxins	3.53	20.0	Pass

Eric Steele, Lab Director
10/21/2023

END OF REPORT

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