



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

# Certificate of Analysis



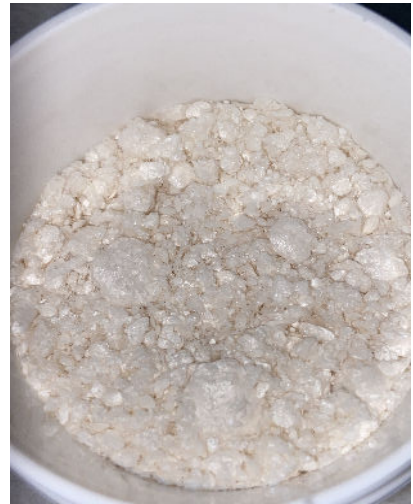
**Customer:** Bay State Extracts

**Address:**

3065 Cranberry Highway  
 East Wareham MA 02538

**Phone:** 800-847-4427

**License #:** MDAR 25200133P

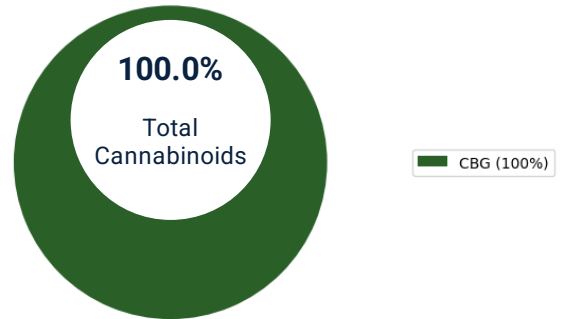


**Sample ID:** 4064  
**Sample Name:** CBG Isolate  
**Sample Type:** Isolate  
**Received Date:** 02/09/2023  
**Report Date:** 02/16/2023  
**METRC ID:** N/A  
**Client Batch ID:** 23032G  
**Client Sample Size:** 10 g

## Results Summary

<b>Cannabinoids</b>	TESTED
02/15/2023	
<b>Heavy Metals</b>	✓ PASS
02/16/2023	
<b>Microbial Impurities</b>	✓ PASS
02/16/2023	
<b>Residual Solvents</b>	✓ PASS
02/15/2023	
<b>Mycotoxins</b>	✓ PASS
02/16/2023	

## Cannabinoid Distribution (%)



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## Cannabinoids

Date Started: 02/13/2023  
Instrument: UPLC-PDA

Date Completed: 02/15/2023  
Method: TP-09.001.03 & TP-09.012.03

Analyst: Yuemin Wang Kovaleff  
Deviation: N/A

Cannabinoid	Result (%)	Result (mg/g)	LOQ (%)
CBG	99.95	1000	2.20
CBDVA	ND	ND	0.00439
CBDV	ND	ND	0.00439
CBDA	ND	ND	0.0110
CBGA	ND	ND	0.00549
CBD	ND	ND	0.0110
Δ9-THCV	ND	ND	0.00439
Δ8-THCV	ND	ND	0.00439
THCVA	ND	ND	0.00439
CBN	ND	ND	0.00549
CBNA	ND	ND	0.00439
Exo-THC	ND	ND	0.00439
Δ9-THC	ND	ND	0.0110
Δ8-THC	ND	ND	0.00549
CBL	ND	ND	0.00439
THCA-A	ND	ND	0.0110
CBC	ND	ND	0.00439
CBCA	ND	ND	0.00439
<b>Total THC</b>	<b>ND</b>	<b>ND</b>	
<b>Total CBD</b>	<b>ND</b>	<b>ND</b>	
<b>Total Cannabinoids</b>	<b>99.95</b>	<b>1000</b>	

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: 02/16/2023  
Instrument: ICP-MS

Date Completed: 02/16/2023  
Method: TP-09.007.01

Analyst: Lana Rivera  
Deviation: N/A

Heavy Metals	LOQ (ppb)	Limit (ppb)	Status
Arsenic	50.9	200	Pass
Cadmium	50.9	200	Pass
Lead	50.9	500	Pass
Mercury	25.5	100	Pass

## Microbial Impurities

✓ PASS

Date Started: 02/13/2023  
Instrument: TEMPO & Gene-Up

Date Completed: 02/16/2023  
Method: TP-09.010.01 & TP-09.011.01

Analyst: Lana Rivera  
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: 02/13/2023

Instrument: HS-GC-MS

Date Completed: 02/15/2023

Method: TP-09.005.03

Analyst: Yuemin Wang Kovaleff

Deviation: N/A

Residual Solvent	LOQ (ppm)	Limit (ppm)	Status
n-Propane	1.62	12.0	Pass
Iso-butane	1.62	12.0	Pass
n-Butane	1.62	12.0	Pass
Methanol	97.5	3000	Pass
Ethylene Oxide	0.650		Pass
n-Pentane	97.5	5000	Pass
Ethanol	97.5	5000	Pass
Ethyl Ether	97.5	5000	Pass
Acetone	97.5	5000	Pass
Isopropyl Alcohol	97.5	5000	Pass
Acetonitrile	97.5	410	Pass
Methylene Chloride	0.650	600	Pass
n-Hexane	97.5	290	Pass
Ethyl Acetate	97.5	5000	Pass
Chloroform	0.650	60.0	Pass
1,2-Dichloroethane	0.650	1870	Pass
Benzene	0.650		Pass
n-Heptane	97.5	5000	Pass
Trichloroethylene	0.650	80.0	Pass
Toluene	97.5	890	Pass
<b>Total Xylenes</b>	<b>48.8</b>	<b>2170</b>	<b>Pass</b>

## Mycotoxins

✓ PASS

Date Started: 02/13/2023

Instrument: LC-MS/MS

Date Completed: 02/16/2023

Method: TP-09.009.01

Analyst: Yuemin Wang Kovaleff

Deviation: N/A

Mycotoxins	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	4.51		
Aflatoxin B2	3.38		
Aflatoxin G1	3.38		
Aflatoxin G2	4.51		
Ochratoxin A	3.38		
<b>Total Mycotoxins</b>	<b>3.38</b>	<b>20.0</b>	<b>Pass</b>

Eric Steele, Lab Director  
02/16/2023

END OF REPORT

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