



**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

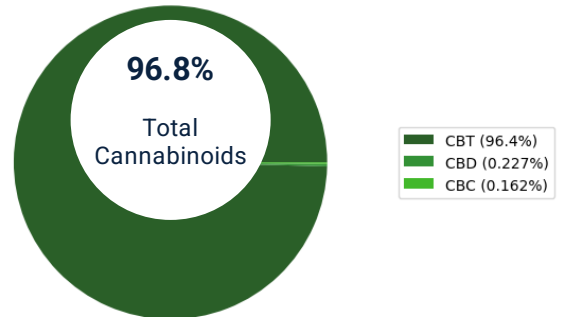


**Sample ID:** 6430  
**Sample Name:** CBT Isolate  
**Sample Type:** Isolate  
**Received Date:** 08/01/2023  
**Report Date:** 08/06/2023  
**METRC ID:** N/A  
**Client Batch ID:** 23208T  
**Client Sample Size:** 5.5 g

## Results Summary

Test Name	Result
<b>Cannabinoids Extended</b> 08/02/2023	TESTED
<b>Heavy Metals</b> 08/05/2023	✓ PASS
<b>Microbial Impurities</b> 08/06/2023	✓ PASS
<b>Residual Solvents</b> 08/03/2023	✓ PASS
<b>Mycotoxins</b> 08/04/2023	✓ PASS

## Cannabinoid Distribution (%)



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## Cannabinoids Extended

Date Started: 08/01/2023  
Instrument: UPLC-PDA

Date Completed: 08/02/2023  
Method: TP-09.001.03 & TP-09.012.04

Analyst: Yuemin Wang Kovaleff  
Deviation: N/A

Cannabinoid	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
CBT	96.4	964	0.454	6.63
CBD	<LOQ	<LOQ	0.00803	0.581
CBC	<LOQ	<LOQ	0.00491	0.332
CBDVA	ND	ND	0.00697	0.332
CBDV	ND	ND	0.0198	0.332
CBDA	ND	ND	0.00653	0.581
CBGA	ND	ND	0.00406	0.332
CBG	ND	ND	0.00450	0.332
Δ9-THCV	ND	ND	0.00559	0.332
Δ8-THCV	ND	ND	0.0101	0.332
THCVA	ND	ND	0.00440	0.332
CBN	ND	ND	0.00710	0.332
CBNA	ND	ND	0.00547	0.332
Exo-THC	ND	ND	0.00829	0.332
Δ9-THC	ND	ND	0.0192	0.581
Δ8-THC	ND	ND	0.0182	0.332
CBL	ND	ND	0.0123	0.332
THCA-A	ND	ND	0.0166	0.581
CBCA	ND	ND	0.0134	0.332
CBLA	ND	ND	0.0114	0.332
<b>Total THC</b>	<b>ND</b>	<b>ND</b>		
<b>Total CBD</b>	<b>&lt;LOQ</b>	<b>&lt;LOQ</b>		
<b>Total Cannabinoids</b>	<b>96.8</b>	<b>968</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: 08/03/2023  
Instrument: ICP-MS

Date Completed: 08/05/2023  
Method: TP-09.007.01

Analyst: Meagan Mattos  
Deviation: N/A

Heavy Metals	LOQ (ppb)	Limit (ppb)	Status
Arsenic	52.2	200	Pass
Cadmium	52.2	200	Pass
Lead	52.2	500	Pass
Mercury	26.1	100	Pass

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## Microbial Impurities

✓ PASS

Date Started: 08/02/2023  
Instrument: TEMPO & Gene-Up

Date Completed: 08/06/2023  
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

## Residual Solvents

✓ PASS

Date Started: 08/02/2023  
Instrument: HS-GC-MS

Date Completed: 08/03/2023  
Method: TP-09.005.03

Analyst: Yuemin Wang Kovaleff  
Deviation: N/A

Residual Solvent	LOQ (ppm)	Limit (ppm)	Status
n-Propane	1.70	12.0	Pass
Iso-butane	1.70	12.0	Pass
n-Butane	1.70	12.0	Pass
Methanol	103	3000	Pass
Ethylene Oxide	0.683		Pass
n-Pentane	103	5000	Pass
Ethanol	103	5000	Pass
Ethyl Ether	103	5000	Pass
Acetone	103	5000	Pass
Isopropyl Alcohol	103	5000	Pass
Acetonitrile	103	410	Pass
Methylene Chloride	0.683	600	Pass
n-Hexane	103	290	Pass
Ethyl Acetate	103	5000	Pass
Chloroform	0.683	60.0	Pass
1,2-Dichloroethane	0.683	1870	Pass
Benzene	0.683		Pass
n-Heptane	103	5000	Pass
Trichloroethylene	0.683	80.0	Pass
Toluene	103	890	Pass
<b>Total Xylenes</b>	<b>51.3</b>	<b>2170</b>	<b>Pass</b>

## Mycotoxins

✓ PASS

Date Started: 08/03/2023  
Instrument: LC-MS/MS

Date Completed: 08/04/2023  
Method: TP-09.009.01

Analyst: Yuemin Wang Kovaleff  
Deviation: N/A

Mycotoxins	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	4.04		
Aflatoxin B2	3.03		
Aflatoxin G1	3.03		
Aflatoxin G2	4.04		
Ochratoxin A	3.03		
<b>Total Mycotoxins</b>	<b>3.03</b>	<b>20.0</b>	<b>Pass</b>

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Eric Steele, Lab Director  
08/06/2023

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END OF REPORT

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