

#### Smithers AMS LLC

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



### Customer: Bay State Extracts

Address: 3065 Cranberry Highway East Wareham MA 02538 Phone: 800-847-4427

License #: MDAR 25200133P



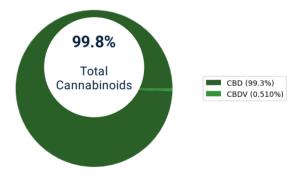
Sample ID: 7931 Sample Name: CBD Isolate Sample Type: Isolate Received Date: 10/17/2023 Report Date: 10/21/2023 METRC ID: N/A Client Batch ID: 23290D Client Sample Size: 10 g

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

# **Certificate of Analysis**



#### **Cannabinoid Distribution (%)**



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## **Certificate of Analysis**

### 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	J) LOQ (%)	
CBD	99.29	993	2.18	
CBDV	0.510	5.10	0.0437	
CBDVA	ND	ND	0.0437	
CBDA	ND	ND	0.109	
CBGA	ND	ND	0.0546	
CBG	ND	ND	0.0546	
Δ9-THCV	ND	ND	0.0437	
Δ8-THCV	ND	ND	0.0437	
THCVA	ND	ND	0.0437	
CBN	ND	ND	0.0546	
CBNA	ND	ND	0.0437	
Exo-THC	ND	ND	0.0437	
∆9-THC	ND	ND	0.109	
∆8-THC	ND	ND	0.0546	
CBL	ND	ND	0.0437	
THCA-A	ND	ND	0.109	
CBC	ND	ND	0.0437	
CBCA	ND	ND	0.0437	
Total THC	ND	ND		
Total CBD	99.29	993		
Total Cannabinoids	99.8	998		

Total THC =  $\Delta$ 9-THC +  $\Delta$ 8-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**

Date Started: 10/19/2023 Instrument: ICP-MS	Date Completed Method: TP-09.0		Analyst: Lana Rivera Deviation: N/A	
Heavy Metals	LOQ (ppb)	Limit (ppb)	Status	
Arsenic	52.6	200	Pass	
Cadmium	52.6	200	Pass	
Lead	52.6	500	Pass	
Mercury	26.3	100	Pass	

### **Microbial Impurities**

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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PASS

PASS



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## **Certificate of Analysis**

#### **Residual Solvents**

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	1.49	12.0	Pass	_
Iso-butane	1.49	12.0	Pass	
n-Butane	1.49	12.0	Pass	
Methanol	89.5	3000	Pass	
Ethylene Oxide	0.596		Pass	
n-Pentane	89.5	5000	Pass	
Ethanol	89.5	5000	Pass	
Ethyl Ether	89.5	5000	Pass	
Acetone	89.5	5000	Pass	
Isopropyl Alcohol	89.5	5000	Pass	
Acetonitrile	89.5	410	Pass	
Methylene Chloride	0.596	600	Pass	
n-Hexane	89.5	290	Pass	
Ethyl Acetate	89.5	5000	Pass	
Chloroform	0.596	60.0	Pass	
1,2-Dichloroethane	0.596	1870	Pass	
Benzene	0.596		Pass	
n-Heptane	89.5	5000	Pass	
Trichloroethylene	0.596	80.0	Pass	
Toluene	89.5	890	Pass	
Total Xylenes	44.8	2170	Pass	

#### **Mycotoxins**

Date Started: 10/18/2023 Analyst: Yuemin Wang Kovaleff Date Completed: 10/19/2023 Instrument: LC-MS/MS Method: TP-09.009.04 Deviation: N/A **Mycotoxins** LOQ (ppb) Limit (ppb) Status Aflatoxin B1 4.85 Aflatoxin B2 3.64 Aflatoxin G1 3.64 Aflatoxin G2 4.85 Ochratoxin A 3.64 **Total Mycotoxins** 20.0 3.64 Pass

Eric Steele, Lab Director 10/21/2023

END OF REPORT

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PASS

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