

# Certificate of Analysis



**Customer:** Bay State Extracts

**Address:**

3065 Cranberry Highway  
 East Wareham MA 02538

**Phone:** 800-847-4427

**License #:** MDAR 25200133P



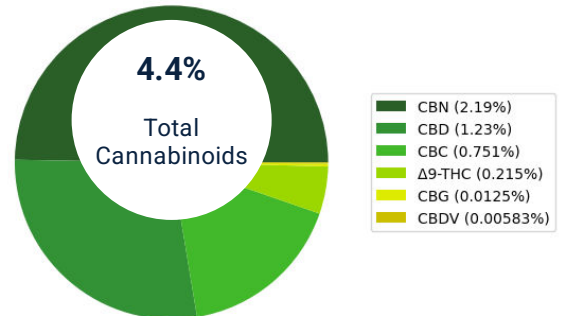
**Sample ID:** 7285  
**Sample Name:** Trifecta Blackout Plus  
**Sample Type:** Tincture  
**Received Date:** 09/20/2023  
**Report Date:** 09/24/2023  
**METRC ID:** N/A  
**Client Batch ID:** TBP23262  
**Client Sample Size:** 28.5 g  
**Unit Weight (g):** 0.95



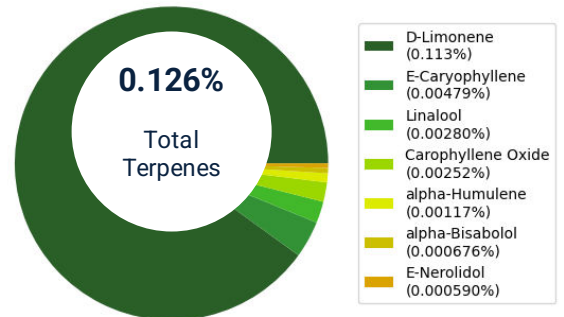
## Results Summary

<b>Cannabinoids</b> 09/21/2023	TESTED
<b>Terpenes</b> 09/23/2023	TESTED
<b>Heavy Metals</b> 09/22/2023	✓ PASS
<b>Microbial Impurities</b> 09/24/2023	✓ PASS
<b>Residual Solvents</b> 09/23/2023	✓ PASS
<b>Mycotoxins</b> 09/22/2023	✓ PASS

## Cannabinoid Distribution (%)



## Terpene Distribution (%)



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

# Certificate of Analysis

## Cannabinoids

**Date Started:** 09/20/2023  
**Instrument:** UPLC-PDA

**Date Completed:** 09/21/2023  
**Method:** TP-09.001.04 & TP-09.012.04

**Analyst:** Yuemin Wang Kovaleff  
**Deviation:** N/A

Cannabinoid	Result (%)	Result (mg/serving)	Result (mg/package)	LOQ (mg/serving)
CBN	2.19	20.8	623	0.0215
CBD	1.23	11.6	349	0.0430
CBC	0.751	7.14	214	0.0172
Δ9-THC	0.215	2.04	61.2	0.00396
CBG	0.0125	0.119	3.57	0.00198
CBDV	0.00583	0.0553	1.66	0.00158
CBDVA	ND	ND	ND	0.00158
CBDA	ND	ND	ND	0.00396
CBGA	ND	ND	ND	0.00198
Δ9-THCV	ND	ND	ND	0.00158
Δ8-THCV	ND	ND	ND	0.00158
THCVA	ND	ND	ND	0.00158
CBNA	ND	ND	ND	0.00158
Exo-THC	ND	ND	ND	0.00158
Δ8-THC	ND	ND	ND	0.00198
CBL	ND	ND	ND	0.00158
THCA-A	ND	ND	ND	0.00396
CBCA	ND	ND	ND	0.00158
<b>Total THC</b>	<b>0.215</b>	<b>2.04</b>	<b>61.2</b>	
<b>Total CBD</b>	<b>1.23</b>	<b>11.6</b>	<b>349</b>	
<b>Total Cannabinoids</b>	<b>4.40</b>	<b>41.8</b>	<b>1253</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.

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## Terpenes

Date Started: 09/20/2023  
Instrument: GC-MS

Date Completed: 09/23/2023  
Method: TP-09.004.03

Analyst: Yueming Wang Kovaleff  
Deviation: N/A

Terpene	Result (ppm)	Result (mg/g)	Result (%)	LOQ (ppm)
D-Limonene	143	1.13	0.113	0.000990
E-Caryophyllene	6.05	0.0479	0.00479	0.000990
Linalool	3.53	0.0280	0.00280	0.000990
Carophyllene Oxide	3.19	0.0252	0.00252	0.000990
alpha-Humulene	1.48	0.0117	0.00117	0.000990
alpha-Bisabolol	0.853	0.00676	0.000676	0.000990
E-Nerolidol	0.746	0.00590	0.000590	0.000990
beta-Myrcene	0.357	0.00283	0.000283	0.000990
alpha-Pinene	ND	ND	ND	0.000990
Camphene	ND	ND	ND	0.000990
beta-Pinene	ND	ND	ND	0.000990
E-beta-Ocimene	ND	ND	ND	0.000990
Isopulegol	ND	ND	ND	0.000990
Geraniol	ND	ND	ND	0.000990
Z-Nerolidol	ND	ND	ND	0.000990
Guaiol	ND	ND	ND	0.000990
Eucalyptol	ND	ND	ND	0.000990
delta-3-Carene	ND	ND	ND	0.000990
alpha-Terpinene	ND	ND	ND	0.000990
Z-beta-Ocimene	ND	ND	ND	0.000990
gamma-Terpinene	ND	ND	ND	0.000990
Terpinolene	ND	ND	ND	0.000990
<b>Total Terpenes</b>	<b>159</b>	<b>1.26</b>	<b>0.126</b>	

## Heavy Metals

✓ PASS

Date Started: 09/21/2023  
Instrument: ICP-MS

Date Completed: 09/22/2023  
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

## Microbial Impurities

✓ PASS

Date Started: 09/20/2023  
Instrument: TEMPO & Gene-Up

Date Completed: 09/24/2023  
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: 09/21/2023  
Instrument: HS-GC-MS

Date Completed: 09/23/2023  
Method: TP-09.005.03

Analyst: Yuemin Wang Kovaleff  
Deviation: N/A

Residual Solvent	LOQ (ppm)	Limit (ppm)	Status
n-Propane	1.59	12.0	Pass
Iso-butane	1.59	12.0	Pass
n-Butane	1.59	12.0	Pass
Methanol	95.4	3000	Pass
Ethylene Oxide	0.636		Pass
n-Pentane	95.4	5000	Pass
Ethanol	95.4	5000	Pass
Ethyl Ether	95.4	5000	Pass
Acetone	95.4	5000	Pass
Isopropyl Alcohol	95.4	5000	Pass
Acetonitrile	95.4	410	Pass
Methylene Chloride	0.636	600	Pass
n-Hexane	95.4	290	Pass
Ethyl Acetate	95.4	5000	Pass
Chloroform	0.636	60.0	Pass
1,2-Dichloroethane	0.636	1870	Pass
Benzene	0.636		Pass
n-Heptane	95.4	5000	Pass
Trichloroethylene	0.636	80.0	Pass
Toluene	95.4	890	Pass
<b>Total Xylenes</b>	<b>47.7</b>	<b>2170</b>	<b>Pass</b>

## Mycotoxins

✓ PASS

Date Started: 09/21/2023  
Instrument: LC-MS/MS

Date Completed: 09/22/2023  
Method: TP-09.009.03

Analyst: Yuemin Wang Kovaleff  
Deviation: N/A

Mycotoxins	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	4.96		
Aflatoxin B2	3.72		
Aflatoxin G1	3.72		
Aflatoxin G2	4.96		
Ochratoxin A	3.72		
<b>Total Mycotoxins</b>	<b>3.72</b>	<b>20.0</b>	<b>Pass</b>

Eric Steele, Lab Director  
09/24/2023

END OF REPORT

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