

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



#### Customer: Bay State Hemp Company

Address: 9 Aldrin Rd, Suite 8 Plymouth MA 02360 Phone: 8008474427

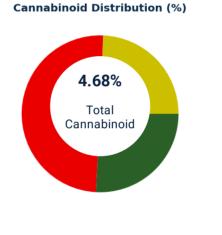


#### Sample ID: 311 Sample Name: Trifecta Blackout Sample Type: Ingestible Received Date: 12/24/2021 Report Date: 12/24/2021 Client Batch ID: 21213BOT Client Sample Size: 80.74 g Unit Weight (g): 28.5

2/17/2021 Ieavy Metals 2/21/2021	PASS
	PASS
2/21/2021	17100
2/21/2021	
licrobial Impurities	PASS
2/23/2021	
<b>Aycotoxins</b>	PASS
2/22/2021	
Pesticides	PASS
2/22/2021	
Residual Solvents	PASS
2/21/2021	

# **Certificate of Analysis**





CBDVA
CBDV
CBDA
CBGA
CBG
CBD
Δ9-THCV
∆8-THCV
THCVA
CBN
CBNA
EXO-THC
Δ9-THC
∆8-THC
CBC
CBL
THCA-A
CBCA
CBLA







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# **Certificate of Analysis**

## Cannabinoids

Date Started: 12/16/2021 Instrument: HPLC-UV	Date Completed: 12/17/2021 Method: TP-09.001.01 & TP-09.002.01		Analyst: Yuemin Wang Kovaleff Deviation: N/A
Cannabinoid	Result (%)	Result (mg/unit)	LOQ (mg/unit)
CBN	2.33	663	6.57
CBC	1.21	345	5.25
CBD	1.14	325	13.1
CBDVA	ND	ND	0.607
CBDV	ND	ND	0.607
CBDA	ND	ND	1.52
CBGA	ND	ND	0.759
CBG	ND	ND	0.759
Δ9-THCV	ND	ND	0.607
THCVA	ND	ND	0.607
CBNA	ND	ND	0.607
EXO-THC	ND	ND	0.607
Δ9-THC	ND	ND	1.52
Δ8-THC	ND	ND	0.759
CBL	ND	ND	0.607
THCA-A	ND	ND	1.52
CBCA	ND	ND	0.607
CBLA	ND	ND	0.607
Total THC	ND	ND	
Total CBD	1.14	325	
Total Cannabinoids	4.68	1332	

**Total THC** =  $\triangle$ 9-THC +  $\triangle$ 8-THC + (THCA 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: 12/21/2021 Instrument: ICP-MS	Date Completed Method: TP-09.0	1	<b>st:</b> Eric Steele tion: N/A	
Heavy Metals	LOQ (ppb)	Limit (ppb)	Status	
Arsenic	6.53	1500	Pass	
Cadmium	6.53	500	Pass	
Lead	6.53	1000	Pass	
Mercury	6.53	1500	Pass	

## **Microbial Impurities**

Date Started: 12/20/2021 Instrument: TEMPO & Gene-Up	Date Completed: 12/23/2021 Method: TP-09.010.01 & TP-09.011.01	Analyst: Eric Steele Deviation: N/A	
Microbials	Result (CFU/g)	Limit (CFU/g)	Status
Coliforms	ND	1000	Pass
Bile-Tolerant Gram-Negative Bacteria	ND	1000	Pass
Yeast & Mold	ND	10000	Pass
Aerobic Bacteria	ND	100000	Pass
E.coli	ND		Pass
Salmonella	ND		Pass

Disclaimer. The results presented within this report pertain only to the sample(s) indicated, as received by Smithers AMS LLC. Smithers AMS LLC is responsible for the information provided in this report, unless indicated that the customer provided the information. This report shall not be reproduced, except in full, without the written approval of Smithers AMS LLC. Action limits used to dictate pass/fail criteria are set by the Massachusetts Cannabis Control Commission.





PASS

PASS



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5.00

## **Certificate of Analysis**

Pass

## **Mycotoxins**

**PASS** 

PASS

PASS

Date Started: 12/20/2021 Instrument: LC-MS/MS	Date Completed: Method: TP-09.00	-	: Yuemin Wang Kovaleff <b>on:</b> N/A
Mycotoxins	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	3.53		
Aflatoxin B2	2.65		
Aflatoxin G1	2.65		
Aflatoxin G2	3.53		
Ochratoxin A	2.65		
Total Mycotoxins	2.65	20	Pass

### **Pesticides**

Date Started: 12/20/2021 Date Completed: 12/22/2021 Analyst: Yuemin Wang Kovaleff Instrument: LC-MS/MS & GC-MS/MS Method: TP-09.008.01 & TP-09.009.01 Deviation: N/A Pesticide LOQ (ppb) Status Limit (ppb) Bifenazate 5.00 10 Pass Bifenthrin 5.00 10 Pass Cyfluthrin 5.00 10 Pass Etoxazole Pass 5.00 10 Imazalil 5.00 Pass 10 Imidacloprid 5.00 10 Pass Myclobutanil 5.00 10 Pass Spiromesifen 5.00 10 Pass

10

### **Residual Solvents**

Trifloxystrobin

Date Started: 12/20/2021 Instrument: HS-GC-MS	Date Completed: 1 Method: TP-09.005		<b>Analyst:</b> Yuemin Wang Kovaleff <b>Deviation:</b> N/A
Residual Solvent	LOQ (ppm)	Limit (ppb)	Status
Ethanol	11.5	5000	Pass
n-Butane	1.15	12	Pass
n-Propane	4.03	12	Pass
Iso-butane	2.18	12	Pass
Methanol	30.5	3000	Pass
n-Pentane	39.8	5000	Pass
Ethyl Ether	11.4	5000	Pass
Acetone	15.2	5000	Pass
Isopropyl Alcohol	10.5	5000	Pass
Acetonitrile	16.3	410	Pass
n-Hexane	19.1	290	Pass
Ethyl Acetate	8.81	5000	Pass
n-Heptane	8.56	5000	Pass
Toluene	3.37	890	Pass
Total Xylenes	4.35	2170	Pass







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# **Certificate of Analysis**

### **Terpenes Extended**

Date Started: 12/22/2021 Instrument: GC-MS	Date Completed: 12/23/2021 Method: TP-09.004.01		<b>Analyst:</b> Yuemin Wang Kovaleff <b>Deviation:</b> N/A	
Terpene	Result (%)	Result (mg/unit)	LOQ (mg/unit)	
D-Limonene	0.132	37.7	1.16	
E-Caryophyllene	0.00940	2.68	1.16	
alpha-Bisabolol	<loq< td=""><td><loq< td=""><td>1.16</td></loq<></td></loq<>	<loq< td=""><td>1.16</td></loq<>	1.16	
Linalool	<loq< td=""><td><loq< td=""><td>1.16</td></loq<></td></loq<>	<loq< td=""><td>1.16</td></loq<>	1.16	
alpha-Humulene	<loq< td=""><td><loq< td=""><td>1.16</td></loq<></td></loq<>	<loq< td=""><td>1.16</td></loq<>	1.16	
gamma-Terpineol	<loq< td=""><td><loq< td=""><td>1.16</td></loq<></td></loq<>	<loq< td=""><td>1.16</td></loq<>	1.16	
alpha-Terpineol	<loq< td=""><td><loq< td=""><td>1.16</td></loq<></td></loq<>	<loq< td=""><td>1.16</td></loq<>	1.16	
Z-Nerolidol	<loq< td=""><td><loq< td=""><td>1.16</td></loq<></td></loq<>	<loq< td=""><td>1.16</td></loq<>	1.16	
Z-beta-Ocimene	<loq< td=""><td><loq< td=""><td>1.16</td></loq<></td></loq<>	<loq< td=""><td>1.16</td></loq<>	1.16	
beta-Myrcene	<loq< td=""><td><loq< td=""><td>1.16</td></loq<></td></loq<>	<loq< td=""><td>1.16</td></loq<>	1.16	
E-Nerolidol	<loq< td=""><td><loq< td=""><td>1.16</td></loq<></td></loq<>	<loq< td=""><td>1.16</td></loq<>	1.16	
alpha-Cedrene	<loq< td=""><td><loq< td=""><td>1.16</td></loq<></td></loq<>	<loq< td=""><td>1.16</td></loq<>	1.16	
Guaiol	<loq< td=""><td><loq< td=""><td>1.16</td></loq<></td></loq<>	<loq< td=""><td>1.16</td></loq<>	1.16	
alpha-Phellandrene	<loq< td=""><td><loq< td=""><td>1.16</td></loq<></td></loq<>	<loq< td=""><td>1.16</td></loq<>	1.16	
[+/-]-Fenchone	<loq< td=""><td><loq< td=""><td>2.32</td></loq<></td></loq<>	<loq< td=""><td>2.32</td></loq<>	2.32	
delta-3-Carene	ND	ND	1.16	
Camphene	ND	ND	1.16	
gamma-Terpinene	ND	ND	1.16	
beta-Pinene	ND	ND	1.16	
Sabinene	ND	ND	1.16	
Menthol	ND	ND	1.16	
Isoborneol	ND	ND	1.16	
Cedrol	ND	ND	1.16	
Terpinolene	ND	ND	1.16	
Eucalyptol	ND	ND	1.16	
Pulegone	ND	ND	1.16	
E-beta-Ocimene	ND	ND	1.16	
Nerol	ND	ND	1.16	
alpha-Pinene	ND	ND	1.16	
Endo-Fenchyl Alcohol	ND	ND	1.16	
Isopulegol	ND	ND	1.16	
[+,N,-]-Camphor	ND	ND	3.49	
Sabinene Hydrate	ND	ND	1.16	
Valencene	ND	ND	1.16	
Geranyl Acetate	ND	ND	1.16	
alpha-Terpinene	ND	ND	1.16	
[+/-]-Borneol	ND	ND	2.32	
Carophyllene Oxide	ND	ND	1.16	
Geraniol	ND	ND	1.16	
Total Terpenes	0.141	40.4		

Eric Steele Quality Manager 12/24/2021







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END OF REPORT



