



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

Certificate of Analysis



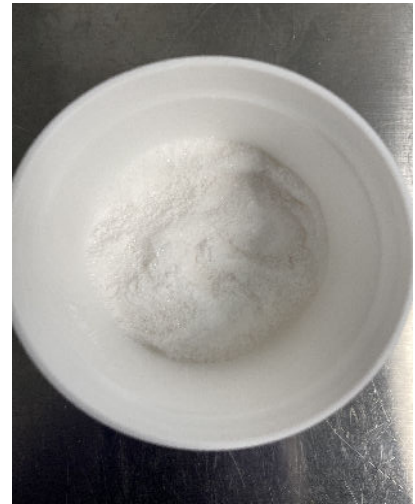
Customer: Bay State Extracts

Address:

3065 Cranberry Highway
 East Wareham MA 02538

Phone: 800-847-4427

License #: MDAR 25200133P

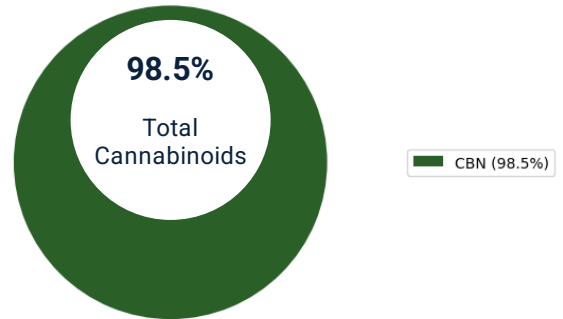


Sample ID: 7933
Sample Name: CBN Isolate
Sample Type: Isolate
Received Date: 10/17/2023
Report Date: 10/21/2023
METRC ID: N/A
Client Batch ID: 23280N
Client Sample Size: 10 g

Results Summary

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

Cannabinoid Distribution (%)



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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)	LOQ (%)
CBN	98.5	985	0.934
CBDVA	ND	ND	0.747
CBDV	ND	ND	0.747
CBDA	ND	ND	1.87
CBGA	ND	ND	0.934
CBG	ND	ND	0.934
CBD	ND	ND	1.87
Δ9-THCV	ND	ND	0.747
Δ8-THCV	ND	ND	0.747
THCVA	ND	ND	0.747
CBNA	ND	ND	0.747
Exo-THC	ND	ND	0.747
Δ9-THC	ND	ND	1.87
Δ8-THC	ND	ND	0.934
CBL	ND	ND	0.747
THCA-A	ND	ND	1.87
CBC	ND	ND	0.747
CBCA	ND	ND	0.747
Total THC	ND	ND	
Total CBD	ND	ND	
Total Cannabinoids	98.5	985	

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: 10/19/2023
Instrument: ICP-MS

Date Completed: 10/21/2023
Method: TP-09.007.01

Analyst: Lana Rivera
Deviation: N/A

Heavy Metals	LOQ (ppb)	Limit (ppb)	Status
Arsenic	58.2	200	Pass
Cadmium	58.2	200	Pass
Lead	58.2	500	Pass
Mercury	29.1	100	Pass

Microbial Impurities

✓ PASS

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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Residual Solvents

✓ PASS

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	1.54	12.0	Pass
Iso-butane	1.54	12.0	Pass
n-Butane	1.54	12.0	Pass
Methanol	92.5	3000	Pass
Ethylene Oxide	0.616		Pass
n-Pentane	92.5	5000	Pass
Ethanol	92.5	5000	Pass
Ethyl Ether	92.5	5000	Pass
Acetone	92.5	5000	Pass
Isopropyl Alcohol	92.5	5000	Pass
Acetonitrile	92.5	410	Pass
Methylene Chloride	0.616	600	Pass
n-Hexane	92.5	290	Pass
Ethyl Acetate	92.5	5000	Pass
Chloroform	0.616	60.0	Pass
1,2-Dichloroethane	0.616	1870	Pass
Benzene	0.616		Pass
n-Heptane	92.5	5000	Pass
Trichloroethylene	0.616	80.0	Pass
Toluene	92.5	890	Pass
Total Xylenes	46.3	2170	Pass

Mycotoxins

✓ PASS

Date Started: 10/18/2023
Instrument: LC-MS/MS

Date Completed: 10/19/2023
Method: TP-09.009.04

Analyst: Yuemin Wang Kovaleff
Deviation: N/A

Mycotoxins	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	4.78		
Aflatoxin B2	3.59		
Aflatoxin G1	3.59		
Aflatoxin G2	4.78		
Ochratoxin A	3.59		
Total Mycotoxins	3.59	20.0	Pass

Eric Steele, Lab Director
10/21/2023

END OF REPORT

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