



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

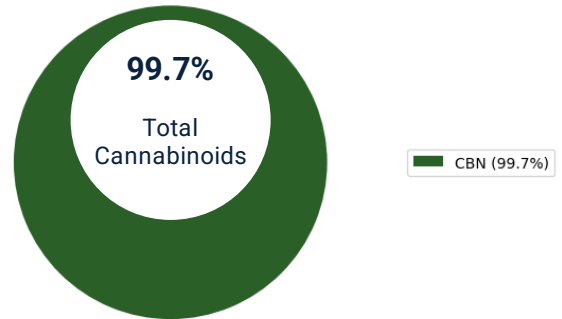


Sample ID: 4065
Sample Name: CBN Isolate
Sample Type: Isolate
Received Date: 02/09/2023
Report Date: 02/16/2023
METRC ID: N/A
Client Batch ID: 23015N
Client Sample Size: 10 g

Results Summary

| | |
|---|--------|
| Cannabinoids 02/11/2023 | TESTED |
| Heavy Metals 02/16/2023 | ✓ PASS |
| Microbial Impurities 02/16/2023 | ✓ PASS |
| Residual Solvents 02/15/2023 | ✓ PASS |
| Mycotoxins 02/16/2023 | ✓ PASS |

Cannabinoid Distribution (%)



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Cannabinoids

Date Started: 02/09/2023

Instrument: UPLC-PDA

Date Completed: 02/11/2023

Method: TP-09.001.03 & TP-09.012.03

Analyst: Yuemin Wang Kovaleff

Deviation: N/A

| Cannabinoid | Result (%) | Result (mg/g) | LOQ (%) |
|---------------------------|--------------|---------------|---------|
| CBN | 99.65 | 997 | 2.07 |
| CBDVA | ND | ND | 0.0383 |
| CBDV | ND | ND | 0.0383 |
| CBDA | ND | ND | 0.0959 |
| CBGA | ND | ND | 0.0479 |
| CBG | ND | ND | 0.0479 |
| CBD | ND | ND | 0.0959 |
| Δ9-THCV | ND | ND | 0.0383 |
| Δ8-THCV | ND | ND | 0.0383 |
| THCVA | ND | ND | 0.0383 |
| CBNA | ND | ND | 0.0383 |
| Exo-THC | ND | ND | 0.0383 |
| Δ9-THC | ND | ND | 0.0959 |
| Δ8-THC | ND | ND | 0.0479 |
| CBL | ND | ND | 0.0383 |
| THCA-A | ND | ND | 0.0959 |
| CBC | ND | ND | 0.0383 |
| CBCA | ND | ND | 0.0383 |
| Total THC | ND | ND | |
| Total CBD | ND | ND | |
| Total Cannabinoids | 99.65 | 997 | |

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: 02/16/2023

Instrument: ICP-MS

Date Completed: 02/16/2023

Method: TP-09.007.01

Analyst: Lana Rivera

Deviation: N/A

| Heavy Metals | LOQ (ppb) | Limit (ppb) | Status |
|--------------|-----------|-------------|--------|
| Arsenic | 51.8 | 200 | Pass |
| Cadmium | 51.8 | 200 | Pass |
| Lead | 51.8 | 500 | Pass |
| Mercury | 25.9 | 100 | Pass |

Microbial Impurities

✓ PASS

Date Started: 02/13/2023

Instrument: TEMPO & Gene-Up

Date Completed: 02/16/2023

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: 02/10/2023

Instrument: HS-GC-MS

Date Completed: 02/15/2023

Method: TP-09.005.03

Analyst: Yuemin Wang Kovaleff

Deviation: N/A

| Residual Solvent | LOQ (ppm) | Limit (ppm) | Status |
|----------------------|-------------|-------------|-------------|
| n-Propane | 1.44 | 12.0 | Pass |
| Iso-butane | 1.44 | 12.0 | Pass |
| n-Butane | 1.44 | 12.0 | Pass |
| Methanol | 86.9 | 3000 | Pass |
| Ethylene Oxide | 0.579 | | Pass |
| n-Pentane | 86.9 | 5000 | Pass |
| Ethanol | 86.9 | 5000 | Pass |
| Ethyl Ether | 86.9 | 5000 | Pass |
| Acetone | 86.9 | 5000 | Pass |
| Isopropyl Alcohol | 86.9 | 5000 | Pass |
| Acetonitrile | 86.9 | 410 | Pass |
| Methylene Chloride | 0.579 | 600 | Pass |
| n-Hexane | 86.9 | 290 | Pass |
| Ethyl Acetate | 86.9 | 5000 | Pass |
| Chloroform | 0.579 | 60.0 | Pass |
| 1,2-Dichloroethane | 0.579 | 1870 | Pass |
| Benzene | 0.579 | | Pass |
| n-Heptane | 86.9 | 5000 | Pass |
| Trichloroethylene | 0.579 | 80.0 | Pass |
| Toluene | 86.9 | 890 | Pass |
| Total Xylenes | 43.4 | 2170 | Pass |

Mycotoxins

PASS

Date Started: 02/10/2023

Instrument: LC-MS/MS

Date Completed: 02/16/2023

Method: TP-09.009.01

Analyst: Yuemin Wang Kovaleff

Deviation: N/A

| Mycotoxins | LOQ (ppb) | Limit (ppb) | Status |
|-------------------------|-------------|-------------|-------------|
| Aflatoxin B1 | 4.56 | | |
| Aflatoxin B2 | 3.42 | | |
| Aflatoxin G1 | 3.42 | | |
| Aflatoxin G2 | 4.56 | | |
| Ochratoxin A | 3.42 | | |
| Total Mycotoxins | 3.42 | 20.0 | Pass |

Eric Steele, Lab Director
02/16/2023

END OF REPORT

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