



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

Certificate of Analysis



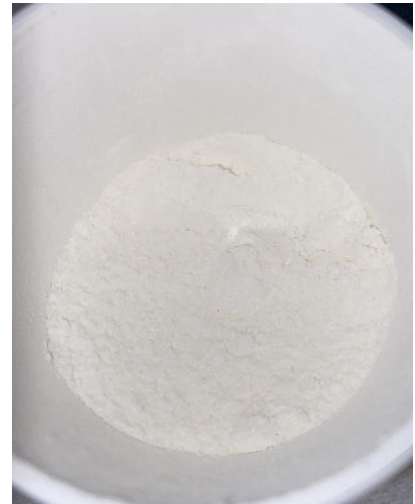
Customer: Bay State Extracts

Address:

3065 Cranberry Highway
 East Wareham MA 02538

Phone: 800-847-4427

License #: MDAR 25200133P

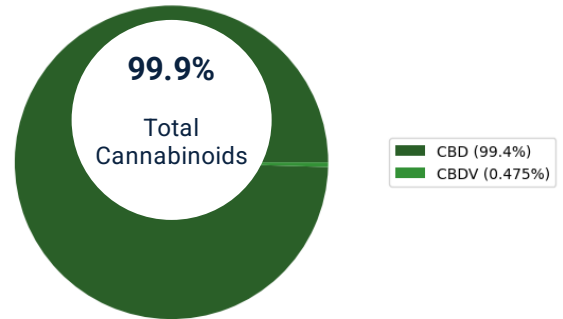


Sample ID: 4063
Sample Name: CBD Isolate
Sample Type: Isolate
Received Date: 02/09/2023
Report Date: 02/16/2023
METRC ID: N/A
Client Batch ID: 23039D
Client Sample Size: 10 g

Results Summary

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

Cannabinoid Distribution (%)



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.





SMITHERS

Smithers AMS LLC

790 Main St

Wareham, MA 02571

License #: IL281355

Phone: 508-295-2550

Certificate of Analysis

Cannabinoids

Date Started: 02/09/2023

Instrument: UPLC-PDA

Date Completed: 02/15/2023

Method: TP-09.001.03 & TP-09.012.03

Analyst: Yuemin Wang Kovaleff

Deviation: N/A

| Cannabinoid | Result (%) | Result (mg/g) | LOQ (%) |
|---------------------------|--------------|---------------|---------|
| CBD | 99.43 | 994 | 2.19 |
| CBDV | 0.475 | 4.75 | 0.0438 |
| CBDVA | ND | ND | 0.0438 |
| CBDA | ND | ND | 0.110 |
| CBGA | ND | ND | 0.0548 |
| CBG | ND | ND | 0.0548 |
| Δ9-THCV | ND | ND | 0.0438 |
| Δ8-THCV | ND | ND | 0.0438 |
| THCVA | ND | ND | 0.0438 |
| CBN | ND | ND | 0.0548 |
| CBNA | ND | ND | 0.0438 |
| Exo-THC | ND | ND | 0.0438 |
| Δ9-THC | ND | ND | 0.110 |
| Δ8-THC | ND | ND | 0.0548 |
| CBL | ND | ND | 0.0438 |
| THCA-A | ND | ND | 0.110 |
| CBC | ND | ND | 0.0438 |
| CBCA | ND | ND | 0.0438 |
| Total THC | ND | ND | |
| Total CBD | 99.43 | 994 | |
| Total Cannabinoids | 99.9 | 999 | |

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 | 51.9 | 200 | Pass |
| Cadmium | 51.9 | 200 | Pass |
| Lead | 51.9 | 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 |

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.





SMITHERS

Smithers AMS LLC

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

Certificate of Analysis

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 | 1.73 | 12.0 | Pass |
| Iso-butane | 1.73 | 12.0 | Pass |
| n-Butane | 1.73 | 12.0 | Pass |
| Methanol | 104 | 3000 | Pass |
| Ethylene Oxide | 0.691 | | Pass |
| n-Pentane | 104 | 5000 | Pass |
| Ethanol | 104 | 5000 | Pass |
| Ethyl Ether | 104 | 5000 | Pass |
| Acetone | 104 | 5000 | Pass |
| Isopropyl Alcohol | 104 | 5000 | Pass |
| Acetonitrile | 104 | 410 | Pass |
| Methylene Chloride | 0.691 | 600 | Pass |
| n-Hexane | 104 | 290 | Pass |
| Ethyl Acetate | 104 | 5000 | Pass |
| Chloroform | 0.691 | 60.0 | Pass |
| 1,2-Dichloroethane | 0.691 | 1870 | Pass |
| Benzene | 0.691 | | Pass |
| n-Heptane | 104 | 5000 | Pass |
| Trichloroethylene | 0.691 | 80.0 | Pass |
| Toluene | 104 | 890 | Pass |
| Total Xylenes | 51.9 | 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 | 4.72 | | |
| Aflatoxin B2 | 3.54 | | |
| Aflatoxin G1 | 3.54 | | |
| Aflatoxin G2 | 4.72 | | |
| Ochratoxin A | 3.54 | | |
| Total Mycotoxins | 3.54 | 20.0 | Pass |

Eric Steele, Lab Director
02/16/2023

END OF REPORT

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.

