

DEA No. RA0571996
FL License # CMTL-0003
CLIA No. 10D1094068

Certificate of Analysis

R&D

Batch # AP081021
Batch Date: 2022-05-06
Extracted From: CBD Hemp

Test Reg State: Oregon

Order # AM0220506-040001
Order Date: 2022-05-06
Sample # AACU478

Sampling Date: 2022-05-09
Lab Batch Date: 2022-05-09
Completion Date: 2022-05-12

Initial Gross Weight: 29.344 g
Net Weight: 24.844 g

Number of Units: 1
Net Weight per Unit: 4140.667 mg



Product Image

Potency Tested

Terpenes Tested

Heavy Metals Passed

Mycotoxins Passed

Pesticides Passed

Residual Solvents Passed

Pathogenic Microbiology Passed

Listeria Monocytogenes Passed

Potency 10
Specimen Weight: 1549.500 mg

Tested (LCUV)

Pieces For Panel: 6

| Analyte | Dilution (1:n) | LOD (%) | LOQ (%) | Result (mg/g) | (%) |
|-------------|----------------|----------|---------|---------------|-------|
| CBD | 1000.000 | 0.000054 | 0.002 | 8.690 | 0.869 |
| CBG | 1000.000 | 0.000248 | 0.002 | 0.480 | 0.048 |
| CBDV | 1000.000 | 0.000065 | 0.002 | 0.140 | 0.014 |
| THCV | 1000.000 | 0.000007 | 0.002 | 0.030 | 0.003 |
| Delta-9 THC | 1000.000 | 0.000013 | 0.002 | 0.020 | 0.002 |
| THCA | 1000.000 | 0.000032 | 0.002 | <LOQ | <LOQ |
| CBN | 1000.000 | 0.000014 | 0.002 | <LOQ | <LOQ |
| CBGA | 1000.000 | 0.000008 | 0.002 | <LOQ | <LOQ |
| CBDA | 1000.000 | 0.000001 | 0.002 | <LOQ | <LOQ |
| CBC | 1000.000 | 0.000018 | 0.002 | <LOQ | <LOQ |

Potency Summary

| | | | | | |
|--------|---------------------------|---------|--------|---------------------------|---------------|
| 0.002% | Total THC | 0.080mg | 0.869% | Total CBD | 35.980mg |
| 0.048% | Total CBG | 1.990mg | - | Total CBN | None Detected |
| 0.017% | Other Cannabinoids | 0.700mg | 0.936% | Total Cannabinoids | 38.760mg |

Terpenes Summary

| Analyte | Result (mg/g) | (%) |
|---------|---------------|-----|
|---------|---------------|-----|

Total Terpenes: 0.000%

Detailed Terpenes Analysis is on the following page

Xueli Gao
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Lab Toxicologist

Aixia Sun
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Terpenes Tested (GC/GCMS)

Specimen Weight: 1549.500 mg

Dilution Factor: 20.000

| Analyte | LOQ (%) | Result (mg/g) | (%) | Analyte | LOQ (%) | Result (mg/g) | (%) |
|---------------------|---------|---------------|------|---------------------|---------|---------------|------|
| (+)-Cedrol | 0.002 | <LOQ | <LOQ | (R)-(+)-Limonene | 0.002 | <LOQ | <LOQ |
| Nerol | 0.002 | <LOQ | <LOQ | beta-Myrcene | 0.002 | <LOQ | <LOQ |
| Geranyl acetate | 0.002 | <LOQ | <LOQ | 3-Carene | 0.002 | <LOQ | <LOQ |
| Guaiol | 0.002 | <LOQ | <LOQ | alpha-Bisabolol | 0.002 | <LOQ | <LOQ |
| Hexahydrothymol | 0.002 | <LOQ | <LOQ | alpha-Cedrene | 0.002 | <LOQ | <LOQ |
| Isoborneol | 0.002 | <LOQ | <LOQ | alpha-Humulene | 0.002 | <LOQ | <LOQ |
| Isopulegol | 0.002 | <LOQ | <LOQ | alpha-Phellandrene | 0.002 | <LOQ | <LOQ |
| Linalool | 0.002 | <LOQ | <LOQ | alpha-Pinene | 0.002 | <LOQ | <LOQ |
| Ocimene | 0.000 | <LOQ | <LOQ | alpha-Terpinene | 0.002 | <LOQ | <LOQ |
| Gamma-Terpinene | 0.002 | <LOQ | <LOQ | beta-Pinene | 0.002 | <LOQ | <LOQ |
| Pulegone | 0.002 | <LOQ | <LOQ | Fenchone | 0.002 | <LOQ | <LOQ |
| Sabinene | 0.002 | <LOQ | <LOQ | Borneol | 0.004 | <LOQ | <LOQ |
| Sabinene Hydrate | 0.002 | <LOQ | <LOQ | Camphene | 0.002 | <LOQ | <LOQ |
| Terpinolene | 0.002 | <LOQ | <LOQ | Camphors | 0.006 | <LOQ | <LOQ |
| Total Terpineol | 0.001 | <LOQ | <LOQ | Caryophyllene oxide | 0.002 | <LOQ | <LOQ |
| trans-Caryophyllene | 0.002 | <LOQ | <LOQ | cis-Nerolidol | 0.002 | <LOQ | <LOQ |
| trans-Nerolidol | 0.002 | <LOQ | <LOQ | Eucalyptol | 0.002 | <LOQ | <LOQ |
| Geraniol | 0.002 | <LOQ | <LOQ | Farnesene | 0.002 | <LOQ | <LOQ |
| Fenchyl Alcohol | 0.002 | <LOQ | <LOQ | Valencene | 0.002 | <LOQ | <LOQ |

Total Terpenes: 0.000%

Mycotoxins Passed (LCMS) Pathogenic Microbiology SAE (MicroArray) Passed (Micro Array)

Specimen Weight: 268.000 mg

Dilution Factor: 5.597

| Analyte | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|--------------|-----------|--------------------|--------------|--------------|-----------|--------------------|--------------|
| Aflatoxin B1 | 6 | 20 | <LOQ | Aflatoxin G2 | 6 | 20 | <LOQ |
| Aflatoxin B2 | 6 | 20 | <LOQ | Ochratoxin A | 12 | 20 | <LOQ |
| Aflatoxin G1 | 6 | 20 | <LOQ | | | | |

Specimen Weight: 1038.390 mg

Dilution Factor: 1.000

| Analyte | Result (cfu/g) | Analyte | Result (cfu/g) |
|-----------------------|----------------|---------------------|----------------|
| Aspergillus flavus | Absence in 1g | Aspergillus terreus | Absence in 1g |
| Aspergillus fumigatus | Absence in 1g | Salmonella | Absence in 1g |
| Aspergillus niger | Absence in 1g | STEC E. Coli | Absence in 1g |

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Pesticides

Specimen Weight: 268.000 mg

Passed
(LCMS/GCMS)



Residual Solvents - FL (CBD)

Specimen Weight: 12.300 mg

Passed
(GCMS)

Dilution Factor: 5.97

| Analyte | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|---------------|-----------|--------------------|--------------|-------------------------|-----------|--------------------|--------------|
| Abamectin | 28.23 | 300 | <LOQ | Imazalil | 30 | 100 | <LOQ |
| Acephate | 30 | 3000 | <LOQ | Imidacloprid | 30 | 3000 | <LOQ |
| Acequinocyl | 48 | 2000 | <LOQ | Kresoxim Methyl | 30 | 1000 | <LOQ |
| Acetamiprid | 30 | 3000 | <LOQ | Malathion | 30 | 2000 | <LOQ |
| Aldicarb | 30 | 100 | <LOQ | Metaxalyl | 10 | 3000 | <LOQ |
| Azoxystrobin | 10 | 3000 | <LOQ | Methiocarb | 30 | 100 | <LOQ |
| Bifenazate | 30 | 3000 | <LOQ | Methomyl | 30 | 100 | <LOQ |
| Bifenthrin | 30 | 500 | <LOQ | Mevinphos | 30 | 100 | <LOQ |
| Carbaryl | 10 | 500 | <LOQ | Myclobutanil | 30 | 3000 | <LOQ |
| Chlorfenapyr | 48 | 100 | <LOQ | Naled | 30 | 500 | <LOQ |
| Chlorpyrifos | 30 | 100 | <LOQ | Oxamyl | 30 | 500 | <LOQ |
| Clofentezine | 30 | 500 | <LOQ | Pacllobutrazol | 30 | 100 | <LOQ |
| Coumaphos | 30 | 100 | <LOQ | Parathion-methyl | 48 | 100 | <LOQ |
| Cyfluthrin | 30 | 1000 | <LOQ | Pentachloronitrobenzene | 30 | 200 | <LOQ |
| Cypermethrin | 30 | 1000 | <LOQ | Permethrin | 30 | 1000 | <LOQ |
| Daminozide | 30 | 100 | <LOQ | Phosmet | 30 | 200 | <LOQ |
| Diazinon | 30 | 200 | <LOQ | Piperonylbutoxide | 30 | 3000 | <LOQ |
| Dichlorvos | 30 | 100 | <LOQ | Prallethrin | 30 | 400 | <LOQ |
| Dimethoate | 30 | 100 | <LOQ | Propiconazole | 30 | 1000 | <LOQ |
| Dimethomorph | 30 | 3000 | <LOQ | Propoxur | 30 | 100 | <LOQ |
| Ethoprophos | 30 | 100 | <LOQ | Pyrethrins | 30 | 1000 | <LOQ |
| Etofenprox | 30 | 100 | <LOQ | Pyridaben | 30 | 3000 | <LOQ |
| Etoxazole | 30 | 1500 | <LOQ | Spinetoram | 30 | 3000 | <LOQ |
| Fenhexamid | 30 | 3000 | <LOQ | Spiromesifen | 30 | 3000 | <LOQ |
| Fenoxycarb | 30 | 100 | <LOQ | Spirotetramat | 30 | 3000 | <LOQ |
| Fenpyroximate | 30 | 2000 | <LOQ | Spiroxamine | 30 | 100 | <LOQ |
| Fipronil | 30 | 100 | <LOQ | Tebuconazole | 30 | 1000 | <LOQ |
| Fonicamid | 30 | 2000 | <LOQ | Thiacloprid | 30 | 100 | <LOQ |
| Fludioxonil | 30 | 3000 | <LOQ | Thiamethoxam | 30 | 1000 | <LOQ |
| Hexythiazox | 30 | 2000 | <LOQ | Trifloxystrobin | 30 | 3000 | <LOQ |

Dilution Factor: 1.000

| Analyte | LOQ (ppm) | Action Level (ppm) | Result (ppm) | Analyte | LOQ (ppm) | Action Level (ppm) | Result (ppm) |
|--------------------|-----------|--------------------|--------------|--------------------|-----------|--------------------|--------------|
| 1,1-Dichloroethene | 0.16 | 8 | <LOQ | Heptane | 1.39 | 5000 | <LOQ |
| 1,2-Dichloroethane | 0.04 | 5 | <LOQ | Hexane | 1.17 | 290 | <LOQ |
| Acetone | 2.08 | 5000 | <LOQ | Isopropyl alcohol | 1.39 | 500 | <LOQ |
| Acetonitrile | 1.17 | 410 | <LOQ | Methanol | 0.69 | 3000 | <LOQ |
| Benzene | 0.02 | 2 | <LOQ | Methylene chloride | 2.43 | 600 | <LOQ |
| Butanes | 2.5 | 2000 | <LOQ | Pentane | 2.08 | 5000 | <LOQ |
| Chloroform | 0.04 | 60 | <LOQ | Propane | 5.83 | 2100 | <LOQ |
| Ethanol | 2.78 | 5000 | 151.213 | Toluene | 2.92 | 890 | <LOQ |
| Ethyl Acetate | 1.11 | 5000 | <LOQ | Total Xylenes | 2.92 | 2170 | <LOQ |
| Ethyl Ether | 1.39 | 5000 | <LOQ | Trichloroethylene | 0.49 | 80 | <LOQ |
| Ethylene Oxide | 0.1 | 5 | <LOQ | | | | |



Heavy Metals

Specimen Weight: 253.670 mg

Passed
(ICP-MS)

Dilution Factor: 197

| Analyte | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|--------------|-----------|--------------------|--------------|--------------|-----------|--------------------|--------------|
| Arsenic (As) | 100 | 1500 | <LOQ | Lead (Pb) | 100 | 500 | <LOQ |
| Cadmium (Cd) | 100 | 500 | <LOQ | Mercury (Hg) | 100 | 3000 | <LOQ |



Listeria Monocytogenes

Specimen Weight: 1020.100 mg

Passed
(qPCR)

Dilution Factor: 1.000

| Analyte | Action Level (cfu/g) | Result |
|------------------------|----------------------|---------------|
| Listeria Monocytogenes | 1 | Absence in 1g |

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