ACS LABORATORY | CANNABIS & HEMP BEYOND COMPLIANCE
721 Cortaro Dr.
Sun City Center, FL 33573
www.acslabcannabis.com

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

CBD/THC CRUMBLE
**Sample Matrix:** CBD/HEMP Derivative Products (External Use)

# Certificate of Analysis

Compliance Test

**FIVE LEAF LABORATORIES LLC**
**3535 SOUTH SHERWOOD FOREST BLVD STE 251**
**BATON ROUGE, LOUISIANA 70810**

**Batch #** CRUMAACD101
**Batch Date:** 2023-01-27
**Extracted From:** CBD

**Test Reg State:** Oregon

**Order #** FIV230127-150001
**Order Date:** 2023-01-27
**Sample #** AAEA723

**Sampling Date:** 2023-01-30
**Lab Batch Date:** 2023-01-30
**Completion Date:** 2023-02-02

**Initial Gross Weight:** 15.383 g
**Net Weight:** 2.699 g

**Number of Units:** 1
**Net Weight per Unit:** 2699.000 mg

Product Image

**Potency**
**Tested**

## Potency 23 (LCUV)

**Specimen Weight: 58.370 mg**

**Tested**
SOP13.002 (LCUV)

| Analyte | Dilution (1:n) | LOD (%) | LOQ (%) | Result (mg/g) | (%) |
|---|---|---|---|---|---|
| CBD | 1000.000 | 5.40E-5 | 0.0015 | 720.4000 | 72.0400 |
| CBC | 100.000 | 1.80E-5 | 0.0015 | 54.9900 | 5.4990 |
| Delta-8 THC | 10.000 | 2.60E-5 | 0.0015 | 3.9300 | 0.3930 |
| CBDV | 10.000 | 6.50E-5 | 0.0015 | 2.4130 | 0.2413 |
| CBT | 10.000 | 2.00E-4 | 0.0015 | 0.5180 | 0.0518 |
| CBN | 10.000 | 1.40E-5 | 0.0015 | 0.4630 | 0.0463 |
| CBG | 10.000 | 2.48E-4 | 0.0015 | 0.4480 | 0.0448 |
| CBCA | 10.000 | 1.07E-4 | 0.0015 | <LOQ | <LOQ |
| CBDA | 10.000 | 1.00E-5 | 0.0015 | <LOQ | <LOQ |
| CBDVA | 10.000 | 1.40E-5 | 0.0015 | <LOQ | <LOQ |
| CBGA | 10.000 | 8.00E-5 | 0.0015 | <LOQ | <LOQ |
| CBL | 10.000 | 3.50E-5 | 0.0015 | <LOQ | <LOQ |
| CBNA | 10.000 | 9.50E-5 | 0.0015 | <LOQ | <LOQ |
| Delta-8 THC-O Acetate | 10.000 | 2.70E-5 | 0.003 | <LOQ | <LOQ |
| Delta-8 THCV | 10.000 | 4.00E-5 | 0.0015 | <LOQ | <LOQ |
| Delta-9 THC | 10.000 | 1.30E-5 | 0.0015 | <LOQ | <LOQ |
| Delta-9 THC-O Acetate | 10.000 | 7.70E-5 | 0.003 | <LOQ | <LOQ |
| Delta8-THCP | 10.000 | 3.75E-4 | 0.0015 | <LOQ | <LOQ |
| Delta9-THCP | 10.000 | 1.17E-5 | 0.0012 | <LOQ | <LOQ |
| Exo-THC | 10.000 | 2.30E-4 | 0.0015 | <LOQ | <LOQ |
| THCA-A | 10.000 | 3.20E-5 | 0.0015 | <LOQ | <LOQ |
| THCV | 10.000 | 7.00E-6 | 0.0015 | <LOQ | <LOQ |
| THCVA | 10.000 | 4.70E-5 | 0.0015 | <LOQ | <LOQ |
| | | | | 1,944.360 | 72.040 |
| | | | | <LOQ | <LOQ |

Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

## Potency Summary

| | |
|---|---|
| **Total Active THC** - None Detected | **Total Active CBD** 72.040% 1,944.360 |
| **Total CBG** 0.045% 1.210mg | **Total CBN** 0.046% 1.240mg |
| **Other Cannabinoids** 6.185% 166.930mg | **Total Cannabinoids** 78.316% 2,113.750 |

ACCREDITED CERT #6786.01

DEA REGISTERED LABORATORY #RA0571996

**Definitions and Abbreviations used in this report:** Total Active CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.87), Total Active THC = THCA-A * 0.877 + Delta 9 THC, Total THCV = THCV + (THCVA * 0.87) , CBG Total = (CBGA * 0.877) + CBG, CBN Total = (CBNA * 0.877) + CBN, Total CBC = CBC + (CBCA * 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, Total Detected Cannabinoids = Delta6a10a-THC + Delta8-THC + Total CBN + CBT + Delta8-THCV + Total CBG + Total CBD + Total THCV + CBL + Total THC + Total CBC + Total CBDV + Delta10-THC + Total THC-O-Acetate. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram (cfu/g) = Colony Forming Unit per Gram, , LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = aw (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram , *Measurement of Uncertainty = +/- 10%

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QA By: 1057 on 2023-02-02 12:45:41 V1

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**DELTA-8 THC CONCENTRATE**
**Sample Matrix:** CBD/HEMP Derivative Products (Inhalation - Heated)

# Certificate of Analysis

**Compliance Test**

**Client Information:**
**FIVE LEAF LABORATORIES LLC**
**3535 SOUTH SHERWOOD FOREST BLVD**
**STE 251**
**BATON ROUGE, LOUISIANA 70810**

**Batch #** CRUMAACD101
**Batch Date:** 2023-04-12
**Extracted From:** HEMP

**Test Reg State:** Louisiana

**Order #** FIV230530-020001
**Order Date:** 2023-05-30
**Sample #** AAEN157
**Serving Description:** 1 serving is 1 gram of product. 10g sent in for testing

**Sampling Date:** 2023-05-31
**Lab Batch Date:** 2023-05-31
**Completion Date:** 2023-06-05
**Size of One Serving:** 1 mg

**Initial Gross Weight:** 49.602 g
**Net Weight per Serving:** 1000 mg

**Number of Units:** 1
**Net Weight per Package:** 10.000 g
**Serving Number:** 10.00000

## Total Yeast and Mold

**Passed**
**SOP13.017 (qPCR)**

**Specimen Weight: 510.800 mg**

**Dilution Factor: 1.000**

| Analyte | Action Level (cfu/g) | Result (cfu/g) | Remark |
|---|---|---|---|
| Total Yeast/Mold | 100000 | <LOQ | Passed |

## Pathogenic Microbiology - SE (MicroArray)

**Passed**
**SOP13.019 (Micro Array)**

**Specimen Weight: 1031.400 mg**

**Dilution Factor: 1.000**

| Analyte | Result (cfu/g) | Analyte | Result (cfu/g) |
|---|---|---|---|
| Salmonella | Absence in 1g | STEC E. Coli | Absence in 1g |

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**Definitions are found on page 1**

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**Size of One Serving:** 1 mg

**Initial Gross Weight:** 49.602 g
**Net Weight per Serving:** 1000 mg

**Number of Units:** 1
**Net Weight per Package:** 10.000 g
**Serving Number:** 10.00000

## Heavy Metals - LA

**Passed**

**Specimen Weight: 247.100 mg**

**SOP13.048 (ICP-MS)**

**Dilution Factor: 202.347**

| Analyte | LOD (ppm) | LOQ (ppm) | Action Level (ppm) | Result (ppm) | Analyte | LOD (ppm) | LOQ (ppm) | Action Level (ppm) | Result (ppm) |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic (As) | .00483 | 0.1 | 10 | 0.791 | Lead (Pb) | .01176 | 0.1 | 10 | <LOQ |
| Cadmium (Cd) | .00064 | 0.1 | 4.1 | 0.203 | Mercury (Hg) | .00058 | 0.1 | 2 | <LOQ |

## Residual Solvents - LA (CBD)

**Passed**

**Specimen Weight: 11.800 mg**

**SOP13.039 (GCMS)**

**Dilution Factor: 1.000**

| Analyte | LOD (ppm) | LOQ (ppm) | Action Level (ppm) | Result (ppm) | Analyte | LOD (ppm) | LOQ (ppm) | Action Level (ppm) | Result (ppm) |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.0094 | 0.16 | 8 | <LOQ | Heptane | 0.0013 | 1.39 | 500 | <LOQ |
| 1,2-Dichloroethane | 0.0003 | 0.04 | 5 | <LOQ | Hexane | 0.068 | 1.17 | 10 | <LOQ |
| Acetone | 0.015 | 2.08 | 5000 | <LOQ | Isopropyl alcohol | 0.0048 | 1.39 | 500 | <LOQ |
| Acetonitrile | 0.06 | 1.17 | 410 | <LOQ | Methanol | 0.0005 | 0.69 | 3000 | <LOQ |
| Benzene | 0.0002 | 0.02 | 1 | <LOQ | Methylene chloride | 0.0029 | 2.43 | 600 | <LOQ |
| Butanes | 0.4167 | 2.5 | 800 | <LOQ | Pentane | 0.037 | 2.08 | 5000 | <LOQ |
| Chloroform | 0.0001 | 0.04 | 60 | <LOQ | Propane | 0.031 | 5.83 | 2100 | <LOQ |
| Ethanol | 0.0021 | 2.78 | 5000 | <LOQ | Toluene | 0.0009 | 2.92 | 1 | <LOQ |
| Ethyl Acetate | 0.0012 | 1.11 | 5000 | <LOQ | Total Xylenes | 0.0001 | 2.92 | 1 | <LOQ |
| Ethyl Ether | 0.0049 | 1.39 | 5000 | <LOQ | Trichloroethylene | 0.0014 | 0.49 | 80 | <LOQ |
| Ethylene Oxide | 0.0038 | 0.1 | 5 | <LOQ | | | | | |

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**Completion Date:** 2023-06-05
**Size of One Serving:** 1 mg

**Initial Gross Weight:** 49.602 g
**Net Weight per Serving:** 1000 mg

**Number of Units:** 1
**Net Weight per Package:** 10.000 g
**Serving Number:** 10.00000

## Pesticides - LA

**Passed**

**Specimen Weight: 613.200 mg**

**SOP13.007 (LCMS/GCMS)**

**Dilution Factor: 2.450**

| Analyte | LOD (ppm) | LOQ (ppm) | Action Level (ppm) | Result (ppm) | Analyte | LOD (ppm) | LOQ (ppm) | Action Level (ppm) | Result (ppm) |
|---|---|---|---|---|---|---|---|---|---|
| Abamectin | 3.1800E-4 | 0.02823 | 0.3 | <LOQ | Hexythiazox | 6.1900E-5 | 0.03 | 2 | <LOQ |
| Acephate | 3.9632E-2 | 0.03 | 5 | <LOQ | Imazalil | 2.9500E-4 | 0.03 | 0 | <LOQ |
| Acequinocyl | 5.7646E-2 | 0.048 | 4 | <LOQ | Imidacloprid | 1.5300E-4 | 0.03 | 3 | <LOQ |
| Acetamiprid | 3.3800E-10 | 0.03 | 5 | <LOQ | Kresoxim Methyl | 1.4500E-4 | 0.03 | 1 | <LOQ |
| Aldicarb | 2.2744E-2 | 0.03 | 0 | <LOQ | Malathion | 1.3300E-4 | 0.03 | 5 | <LOQ |
| Azoxystrobin | 1.3247E-2 | 0.01 | 40 | <LOQ | Metalaxyl | 4.8600E-5 | 0.03 | 15 | <LOQ |
| Bifenazate | 2.1700E-8 | 0.03 | 5 | <LOQ | Methiocarb | 2.2810E-3 | 0.03 | 0 | <LOQ |
| Bifenthrin | 8.4200E-4 | 0.03 | 0.5 | <LOQ | Methomyl | 1.1500E-6 | 0.03 | 0.1 | <LOQ |
| Boscalid | 4.3300E-6 | 0.01 | 10 | <LOQ | Mevinphos | 4.4200E-5 | 0.03 | 0 | <LOQ |
| Captan | 6.1200E+0 | 0.03 | 10 | <LOQ | Myclobutanil | 7.0006E-1 | 0.03 | 9 | <LOQ |
| Carbaryl | 1.3800E-5 | 0.01 | 0.5 | <LOQ | Naled | 5.8500E-6 | 0.03 | 0.5 | <LOQ |
| Chlorfenapyr | 1.5370E+1 | 0.048 | 0.1 | <LOQ | Oxamyl | 1.6190E-3 | 0.03 | 0.2 | <LOQ |
| Chlorpyrifos | 9.0900E-5 | 0.03 | 100 | <LOQ | Paclobutrazol | 6.9300E-8 | 0.03 | 0 | <LOQ |
| Clofentezine | 3.7100E-7 | 0.03 | 0.5 | <LOQ | Pentachloronitrobenzen(Quintozene) | 4.3900E+0 | 0.03 | 0.2 | <LOQ |
| Coumaphos | 9.8600E-5 | 0.03 | 0 | <LOQ | Permethrin | 2.2089E-2 | 0.03 | 20 | <LOQ |
| Cyfluthrin | 2.8130E+1 | 0.03 | 1 | <LOQ | Phosmet | 9.6150E-3 | 0.03 | 0.2 | <LOQ |
| Cypermethrin | 1.1900E-6 | 0.03 | 1 | <LOQ | Piperonylbutoxide | 1.3400E-7 | 0.03 | 8 | <LOQ |
| Daminozide | 3.0408E-1 | 0.03 | 0 | <LOQ | Prallethrin | 1.6732E-1 | 0.03 | 0.4 | <LOQ |
| Diazinon | 3.9100E-10 | 0.03 | 0.2 | <LOQ | Propiconazole | 2.1300E-14 | 0.03 | 20 | <LOQ |
| Dichlorvos | 1.1406E+0 | 0.03 | 0 | <LOQ | Propoxur | 3.5081E-1 | 0.03 | 0 | <LOQ |
| Dimethoate | 2.8400E-6 | 0.03 | 0 | <LOQ | Pyrethrins | 6.2350E-3 | 0.03 | 1 | <LOQ |
| Dimethomorph | 1.5700E-4 | 0.03 | 20 | <LOQ | Pyridaben | 8.7500E-15 | 0.03 | 3 | <LOQ |
| Ethoprophos | 1.5900E-5 | 0.03 | 1.5 | <LOQ | Spinetoram | 2.3645E-2 | 0.03 | 3 | <LOQ |
| Etofenprox | 8.3050E-3 | 0.03 | 0 | <LOQ | Spinosad | 5.9903E-1 | 0.03 | 3 | <LOQ |
| Etoxazole | 8.3558E-1 | 0.03 | 1.5 | <LOQ | Spiromesifen | 3.2183E-1 | 0.03 | 12 | <LOQ |
| Fenhexamid | 1.0947E+0 | 0.03 | 10 | <LOQ | Spirotetramat | 4.2760E-2 | 0.03 | 13 | <LOQ |
| Fenoxycarb | 3.4507E-1 | 0.03 | 0 | <LOQ | Spiroxamine | 1.2172E+0 | 0.03 | 0 | <LOQ |
| Fenpyroximate | 4.4800E-7 | 0.03 | 2 | <LOQ | Tebuconazole | 1.4800E-14 | 0.02 | 2 | <LOQ |
| Fipronil | 2.8847E-2 | 0.03 | 0.1 | <LOQ | Thiacloprid | 1.1200E-5 | 0.03 | 0 | <LOQ |
| Flonicamid | 6.9733E-2 | 0.03 | 2 | <LOQ | Thiamethoxam | 2.2500E-6 | 0.03 | 4.5 | <LOQ |
| Fludioxonil | 1.3402E-2 | 0.03 | 30 | <LOQ | Trifloxystrobin | 2.1700E-13 | 0.03 | 30 | <LOQ |

Aixia Sun Lab Director/Principal Scientist
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