

Certificate of Analysis

Order #: SIR200711-010056 Order Date: 2020-07-11 Collection Date: 2020-07-13 Report Date: 2020-07-21

Batch #: 20-510
Sample #: AAAJ115
Specimen Type: CBD/HEMP Derivative Products (Ingestion)
Extracted From: Hemp Flower Aerial Parts
Description: Sir Hemp CBD Full Spectrum Extract Oil

Initial Gross Weight: 45.851 g
Specimen Weight: 500 mg
Density: 0.9547 mg/ml
Method: SOP-3



| | | |
|-----------------------------|--|------------------------------------|
| Potency Tested | Heavy Metals Passed | Mycotoxins Passed |
| Pathogenic Passed | Pathogenic Microbiology Passed | Residual Solvents Passed |
| Pesticides Passed | | |



The photos on this report are of a sample collected by the lab and may vary from the final packaging.

| | | |
|----------------------------------|-------------------------------------|--------------------------------------|
| Total CBD 11.440% | Total THC 0.074% | Total CBG 0.035% |
| Total CBN Not Detected | Other Cannabinoids 0.116% | Total Cannabinoids 11.665% |

Potency - 11 (Tested)

(HPLC/LCMS)

| Analyte | Result (mg/ml) | (%) | LOQ (%) | Analyte | Result (mg/ml) | (%) | LOQ (%) | Analyte | Result (mg/ml) | (%) | LOQ (%) |
|------------------|----------------|-------|---------|-------------|----------------|--------|---------|------------------|----------------|--------|---------|
| CBC | 0.465 | 0.049 | 0.001 | CBD | 109.218 | 11.440 | 0.001 | CBDA | <LOQ | | 0.001 |
| CBDV | 0.643 | 0.067 | 0.001 | CBG | 0.330 | 0.035 | 0.001 | CBGA | <LOQ | | 0.001 |
| CBN | <LOQ | | 0.001 | Delta-8 THC | <LOQ | | 0.001 | Delta-9 THC | 0.706 | 0.074 | 0.001 |
| THCA-A | <LOQ | | 0.001 | THCV | <LOQ | | 0.001 | Total CBD | 109.218 | 11.440 | 0.001 |
| Total THC | 0.706 | 0.074 | 0.001 | | | | | | | | |

*Total CBD = CBD + (CBD-A * 0.877), *Total THC = THCA-A * 0.877 + Delta 9 THC, *CBG Total = (CBGA * 0.877) + CBG, *CBN Total = (CBNA * 0.877) + CBN, *Other Cannabinoids Total = CBC + CBDV + THC + THCV-A, *Total Detected Cannabinoids = CBD Total + CBG Total + CBN Total + THC Total + CBC + CBDV + THC + THCV + THCV-A (mg/ml) = Milligrams per Milliliter, , LOQ = Limit of Quantitation, , LOD = Limit of Detection

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Heavy Metals (Passed) (ICP-MS)

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

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

Mycotoxins (Passed) (LCMS/API/GCMS)

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

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

Pathogenic Microbiology 3 (HEMP Compliance Panel) (Passed) (qPCR)

| Analyte | Result (cfu/g) |
|---------------|----------------|
| Listeria | |
| Monocytogenes | Absence |

(cfu/g) = Colony Forming Unit per Gram

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Pathogenic Microbiology 1 (MMTC Compliance Panel) (Passed)

(Micro Array)

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

(cfu/g) = Colony Forming Unit per Gram

Residual Solvents - FL (CBD) (Passed)

(GC/GCMS)

| Analyte | Action Level (ppm) | Result (ppm) | LOQ (ppm) | Analyte | Action Level (ppm) | Result (ppm) | LOQ (ppm) | Analyte | Action Level (ppm) | Result (ppm) | LOQ (ppm) |
|---------------------------|--------------------|--------------|-----------|---------------------------|--------------------|--------------|-----------|---------------------------|--------------------|--------------|-----------|
| 1,1-Dichloroethene | 8 | <LOQ | 0.132 | 1,2-dichloroethane | 5 | <LOQ | 0.032 | Acetone | 5000 | <LOQ | 12 |
| Benzene | 2 | <LOQ | 0.016 | Butanes | 2000 | <LOQ | 13.32 | Acetonitrile | 410 | <LOQ | 0.96 |
| Ethanol | 5000 | <LOQ | 16 | Ethyl Acetate | 5000 | <LOQ | 6.4 | Chloroform | 60 | <LOQ | 0.032 |
| Ethylene Oxide | 5 | <LOQ | 0.32 | Heptane | 5000 | <LOQ | 8 | Ethyl Ether | 5000 | <LOQ | 8 |
| Isopropyl alcohol | 500 | <LOQ | 8 | Methanol | 3000 | <LOQ | 4 | Hexane | 290 | <LOQ | 0.8 |
| Pentane | 5000 | <LOQ | 12 | Propane | 2100 | <LOQ | 26.668 | Methylene chloride | 600 | <LOQ | 2 |
| Total Xylenes | 2170 | <LOQ | 7.2 | Trichloroethylene | 80 | <LOQ | 0.4 | Toluene | 890 | <LOQ | 2.4 |

(ppm) = Parts per Million, (ppm) = (µg/g), , LOQ = Limit of Quantitation

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Pesticides FL V4 (Non-Inhalable) (Passed)

(LCMS/API/GCMS)

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

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