

Certificate of Analysis

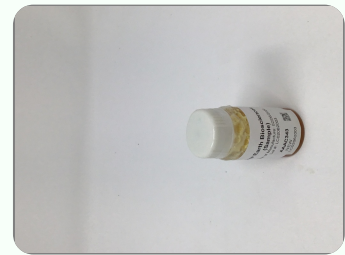
Order #: NEW200212-010074 Order Date: 2020-02-12 Collection Date: 2020-02-13 Report Date: 2020-02-19

Batch #: LC02062003
Sample #: AAAC343
Specimen Type: CBD/HEMP Derivative Products (Ingestion)
Extracted From: HEMP
Description: CBD Broad Spectrum Oil With Minors

Initial Gross Weight: 23597mg
Method: SOP-3



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



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

| | | |
|----------------------------------|--------------------------------------|---------------------------------------|
| CBD Total 82.3400% | THC Total Not Detected | CBG Total 3.6140% |
| CBN Total Not Detected | Other Cannabinoids 2.1839% | Total Cannabinoids 88.1379% |

Potency - 11 (Tested)

| Potency - 11 (Tested) | | | | (HPLC) | | | |
|-----------------------|---------------|-------|---------|-------------|---------------|--------|---------|
| Analyte | Result (mg/g) | (%) | LOQ (%) | Analyte | Result (mg/g) | (%) | LOQ (%) |
| CBC | <LOQ | | 0.001 | CBD | 823.400 | 82.340 | 0.001 |
| CBDV | 18.670 | 1.867 | 0.001 | CBG | 36.140 | 3.614 | 0.001 |
| CBN | <LOQ | | 0.001 | Delta-8-THC | <LOQ | | 0.001 |
| THCA-A | <LOQ | | 0.001 | THCV | 3.169 | 0.317 | 0.001 |
| Total THC | <LOQ | | 0.001 | Total CBD | 823.400 | 82.340 | 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-A (mg/g) = Milligram per Gram, LOQ = Limit of Quantitation

Xueli Gao
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Residual Solvents (Extract Only) (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) |
|-------------|--------------------|--------------|-----------|----------|--------------------|--------------|-----------|------------|--------------------|--------------|-----------|
| Acetone | 5000 | ND | 87.9 | Benzene | 1.6 | ND | 1.6 | Chloroform | 53 | ND | 53 |
| Ethanol | 5000 | ND | 26.7 | Hexane | 60 | ND | 36.6 | I-Butane | 5000 | ND | 100 |
| Isopropanol | 5000 | ND | 52.3 | Methanol | 3000 | ND | 87.9 | N-Butane | 5000 | ND | 200 |
| Pentane | 5000 | Passed | 389.5 | Toluene | 890 | ND | 38.4 | | | | |

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

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 | <LOQ | 100 |
| Mercury (Hg) | 3000 | <LOQ | 100 | | | | | | | | |

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

Mycotoxins (Passed) (LCMS/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) |
|--------------|--------------------|--------------|-----------|-----------------|--------------------|--------------|-----------|--------------|--------------------|--------------|-----------|
| Aflatoxin B1 | | <LOQ | 6 | Aflatoxin B2 | | <LOQ | 6 | Aflatoxin G1 | | <LOQ | 6 |
| Aflatoxin G2 | | <LOQ | 6 | Aflatoxin Total | 20 | <LOQ | 6 | Ochratoxin A | 20 | <LOQ | 12 |

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Extracted From: HEMP
Description: CBD Broad Spectrum Oil With Minors



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

| Analyte | Result |
|---------------|---------|
| Listeria | |
| Monocytogenes | Absence |

Pathogenic Microbiology #1 (MMTC Compliance Panel) (Passed) (Micro Array)

| Analyte | Result | Analyte | Result |
|------------|---------|--------------|---------|
| Salmonella | Absence | STEC E. Coli | Absence |

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Terpenes - FL (Tested)

(GC/GCMS)

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

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Method: SOP-3



Pesticides (Passed)

(LCMS/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) |
|-------------------|--------------------|--------------|-----------|-------------------------|--------------------|--------------|-----------|------------------|--------------------|--------------|-----------|
| 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 | Chlorfenapyr | 100 | <LOQ | 48 |
| Chlorpyrifos | 100 | <LOQ | 30 | Clofentezine | 500 | <LOQ | 30 | Coumaphos | 100 | <LOQ | 30 |
| Cypermethrin | 1000 | <LOQ | 30 | Daminozide | 100 | <LOQ | 30 | DDVP(Dichlorvos) | 100 | <LOQ | 30 |
| Diazinon | 200 | <LOQ | 30 | Dimethoate | 100 | <LOQ | 30 | Dimethomorph | 3000 | <LOQ | 30 |
| Ethoprop(hos) | 100 | <LOQ | 30 | Etofenprox | 100 | <LOQ | 30 | Etoxazole | 1500 | <LOQ | 30 |
| Fenhexamid | 3000 | <LOQ | 30 | Fenoxycarb | 100 | <LOQ | 30 | Fipronil | 100 | <LOQ | 30 |
| Fonicamid | 2000 | <LOQ | 30 | Fludioxonil | 3000 | <LOQ | 30 | Hexythiazox | 2000 | <LOQ | 30 |
| Imazalil | 100 | <LOQ | 30 | Imidacloprid | 3000 | <LOQ | 30 | Kresoxim Methyl | 1000 | <LOQ | 30 |
| Malathion A | 2000 | <LOQ | 30 | Metalaxyl | 3000 | <LOQ | 10 | Methiocarb | 100 | <LOQ | 30 |
| Methomyl | 100 | <LOQ | 30 | Mevinphos | 100 | <LOQ | 30 | Myclobutanil | 3000 | <LOQ | 30 |
| Naled | 500 | <LOQ | 30 | Oxamyl | 500 | <LOQ | 30 | Paclobutrazol | 100 | <LOQ | 30 |
| Parathion-methyl | 100 | <LOQ | 10 | Pentachloronitrobenzene | 200 | <LOQ | 30 | Permethrin | 1000 | <LOQ | 30 |
| Piperonylbutoxide | 3000 | <LOQ | 30 | Prallethrin | 400 | <LOQ | 30 | Phosmet | 200 | <LOQ | 30 |
| Propoxur | 100 | <LOQ | 30 | Pyrethrins | 1000 | <LOQ | 30 | Propiconazole | 1000 | <LOQ | 30 |
| Spinetoram | 3000 | <LOQ | 30 | Spinosyn A | 3000 | <LOQ | 30 | Pyridaben | 3000 | <LOQ | 30 |
| Spiromesifen | 3000 | <LOQ | 30 | Spirotetramat | 3000 | <LOQ | 30 | Spinosyn D | 3000 | <LOQ | 30 |
| Tebuconazole | 1000 | <LOQ | 30 | Thiacloprid | 100 | <LOQ | 30 | Spiroxamine | 100 | <LOQ | 30 |
| Trifloxystrobin | 3000 | <LOQ | 30 | | | | | Thiamethoxam | 1000 | <LOQ | 30 |

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