

Certificate of Analysis

Order #: EXT200106-010058 Order Date: 2020-01-06 Collection Date: 2020-01-06 Report Date: 2020-01-09

Batch #: 19T1500
 Sample #: AAAA955
 Specimen Type: CBD/HEMP Derivative Products
 Extracted From: HEMP
 Description: TINCTURE

Method: SOP-3

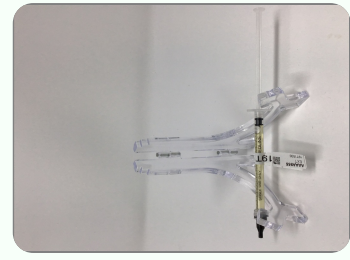


Potency
Tested

Residual Solvents
Passed

Pathogenic
Passed

Terpenes
Tested



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

| | | |
|----------------------------------|---|--|
| CBD Total 5.142% | THC Total 0.124% | CBG Total 0.038% |
| CBN Total Not Detected | Other Cannabinoids Total 0.062% | Total Detected Cannabinoids 5.366% |

Potency - 11 (Tested)

(HPLC)

| Analyte | Result (mg/g) | (%) | LOQ (%) | Analyte | Result (mg/g) | (%) | LOQ (%) | Analyte | Result (mg/g) | (%) | LOQ (%) |
|------------------|---------------|-------|---------|-------------|---------------|-------|---------|------------------|---------------|-------|---------|
| CBC | | <LOQ | 0.001 | CBD | 51.420 | 5.142 | 0.001 | CBDA | | <LOQ | 0.001 |
| CBDV | 0.269 | 0.027 | 0.001 | CBG | 0.378 | 0.038 | 0.001 | CBGA | | <LOQ | 0.001 |
| CBN | | <LOQ | 0.001 | Delta-8-THC | | <LOQ | 0.001 | Delta-9-THC | 1.235 | 0.124 | 0.001 |
| THCA-A | | <LOQ | 0.001 | THCV | 0.356 | 0.036 | 0.001 | Total CBD | 51.420 | 5.142 | 0.001 |
| Total THC | 1.235 | 0.124 | 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 + THCV + THCV-A, *Total Detected Cannabinoids = CBD Total + CBG Total + CBN Total + THC Total + CBC + CBDV + THCV + THCV-A (mg/g) = Milligram per Gram, LOQ = Limit of Quantitation

Xueli Gao
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Lab Toxicologist

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Principal Scientist

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 Extracted From: HEMP
 Description: TINCTURE

Method: SOP-3




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 | <LOQ | 87.9 | Benzene | 1.6 | <LOQ | 1.6 | Chloroform | 53 | <LOQ | 53 |
| Ethanol | 5000 | <LOQ | 26.7 | Hexane | 60 | <LOQ | 36.6 | I-Butane | 5000 | <LOQ | 100 |
| Isopropanol | 5000 | 98.736 | 52.3 | Methanol | 3000 | <LOQ | 87.9 | N-Butane | 5000 | <LOQ | 200 |
| Pentane | 5000 | <LOQ | 389.5 | Toluene | 890 | <LOQ | 38.4 | | | | |

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

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

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


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Order Date: 2020-01-06

Collection Date: 2020-01-06

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Batch #: 19T1500

Sample #: AAAA955

Specimen Type: CBD/HEMP Derivative Products

Extracted From: HEMP

Description: TINCTURE

Method: SOP-3



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 | 0.229 | 0.023 | 0.001 | alpha-Cedrene | | <LOQ | 0.001 | alpha-Humulene | | <LOQ | 0.001 |
| alpha-Phellandren-e | | <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-Ocimen-e | | <LOQ | 0.001 | Pulegone | | <LOQ | 0.001 | Nerol | | <LOQ | 0.001 |
| | | | | Terpineol | | <LOQ | 0.001 | Sabinene | | <LOQ | 0.001 |
| | | | | trans-Caryophyllene | | <LOQ | 0.001 | Terpinolene | | <LOQ | 0.001 |
| | | | | | | | | trans-Nerolidol | | <LOQ | 0.001 |
| | | | | | | | | Valencene | | <LOQ | 0.001 |

(mg/g) = Milligram per Gram, , LOQ = Limit of Quantitation

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