

# CERTIFICATE OF ANALYSIS



Order #:   
 Order Name: Full Spectrum  
 1000 Natural  
 Batch#: Lot 1912H  
 Received: 08/20/2019  
 Completed: 08/27/2019

## Sample



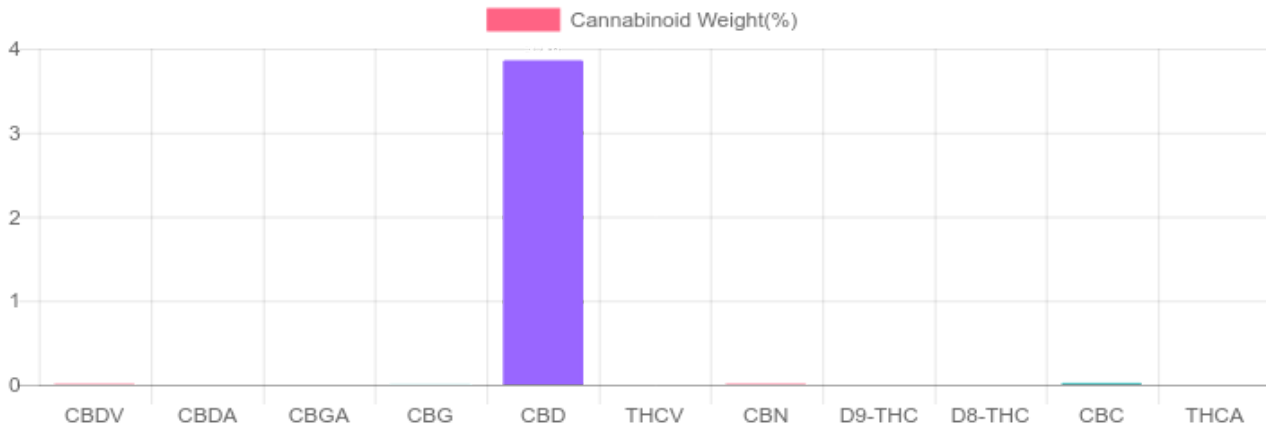
|   |                                |
|---|--------------------------------|
| N/D<br>D9-THC                           | 3.860%<br>Total CBD            |
| 1,065.0 mg<br>Cannabinoids per tincture | 1,053.9 mg<br>CBD per tincture |

## Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA  
 GSL SOP 400      PREPARED: 08/20/2019 20:19:03      UPLOADED: 08/22/2019 16:50:52

| Cannabinoids       | LOQ    | weight(%) | mg/g   | mg/tincture |
|--------------------|--------|-----------|--------|-------------|
| D9-THC             | 10 PPM | N/D       | N/D    | N/D         |
| THCA               | 10 PPM | N/D       | N/D    | N/D         |
| CBD                | 10 PPM | 3.860%    | 38.603 | 1,053.9     |
| CBDA               | 20 PPM | N/D       | N/D    | N/D         |
| CBDV               | 20 PPM | 0.006%    | 0.061  | 1.7         |
| CBC                | 10 PPM | 0.023%    | 0.226  | 6.2         |
| CBN                | 10 PPM | 0.008%    | 0.081  | 2.2         |
| CBG                | 10 PPM | 0.004%    | 0.037  | 1.0         |
| CBGA               | 20 PPM | N/D       | N/D    | N/D         |
| D8-THC             | 10 PPM | N/D       | N/D    | N/D         |
| THCV               | 10 PPM | N/D       | N/D    | N/D         |
| TOTAL D9-THC       |        | N/D       | N/D    | N/D         |
| TOTAL CBD*         |        | 3.860%    | 38.603 | 1,053.9     |
| TOTAL CANNABINOIDS |        | 3.901%    | 39.008 | 1,065.0     |

1 tincture = 27.3 grams per tincture x  
 Cannabinoid concentration



Reporting Limit 10 ppm  
 \*Total CBD = CBD + CBDA x 0.877  
 N/D - Not Detected, B/LOQ - Below Limit of Quantification



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*[Signature]*  
 Dr. Andrew Hall, Ph.D., CSO & Lab Director

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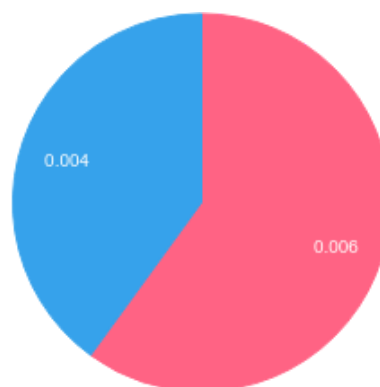
## TERPENES: TOTAL (0.010%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

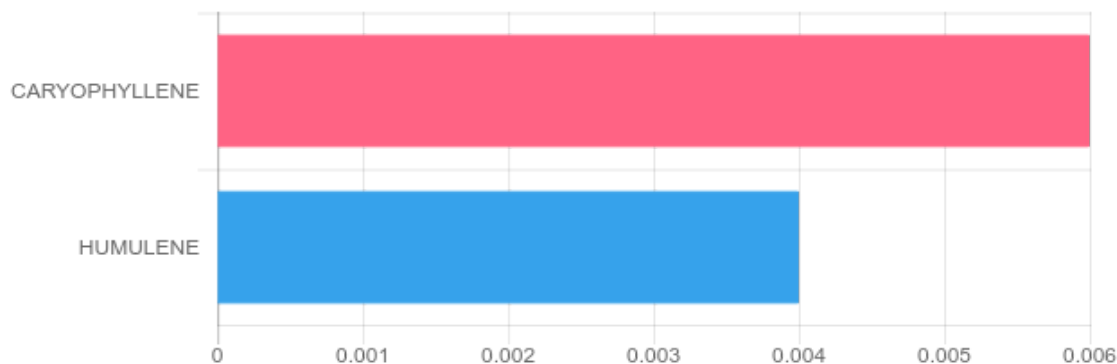
GSL SOP 404  
Prepared: 08/20/2019 22:06:41  
Uploaded: 08/22/2019 16:46:33

| Terpene       | Results (%) | LOQ (%) | LOD (%) |
|---------------|-------------|---------|---------|
| CARYOPHYLLENE | B/LOQ       | 0.0067% | 0.0063% |
| HUMULENE      | B/LOQ       | 0.0067% | 0.0063% |

## Terpenes Breakdown



## Top Terpenes Results:



## Tested for but not present:

ALPHA-PINENE, CAMPHENE, SABINENE, BETA-MYRCENE, BETA-PINENE, ALPHA-PHELLANDRENE, 3-CARENE, ALPHA-TERPINENE, TRANS-BETA-OCIMENE, LIMONENE, CIS-BETA-OCIMENE, EUCALYPTOL, GAMMA-TERPINENE, TERPINOLENE, SABINENE HYDRATE, LINALOOL, FENCHONE, FENCHOL, ISOPULEGOL, CAMPHOR, ISOBORNEOL, MENTHOL, BORNEOL, TERPINEOL (MIX OF ISOMERS), GAMMA-TERPINEOL, NEROL, GERANIOL, PULEGONE, GERANYL ACETATE, ALPHA-CEDRENE, VALENCENE, CIS-NEROLIDOL, TRANS-NEROLIDOL, GUAJOL, CARYOPHYLLENE OXIDE, CEDROL, ALPHA-BISABOLOL



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## Microbial Analysis:

Microbial Analysis GSL SOP 406

Uploaded: 08/27/2019 22:45:48

| PCR - Agilent AriaMX<br>Test | Test Method<br>Used | Device Used | LOD             | Allowable Criteria | Actual<br>Result | Pass/Fail |
|------------------------------|---------------------|-------------|-----------------|--------------------|------------------|-----------|
| PATHOGENIC E.COLI*           | USP 61/62†          | ARIAMX PCR  | 2 COPIES OF DNA | PRESENCE / ABSENT  | BELOW<br>LOD     | PASS      |
| STEC E.COLI*                 | USP 61/62†          | ARIAMX PCR  | 2 COPIES OF DNA | PRESENCE / ABSENT  | BELOW<br>LOD     | PASS      |
| SALMONELLA*                  | USP 61/62†          | ARIAMX PCR  | 5 COPIES OF DNA | PRESENCE / ABSENT  | BELOW<br>LOD     | PASS      |
| LISTERIA MONOCYTOGENES       |                     | ARIAMX PCR  | 2 COPIES OF DNA | PRESENCE / ABSENT  | BELOW<br>LOD     | PASS      |

† USP 61 (enumeration of bacteria TAC, TYM, and ENT/Coliform), USP 62 (identifying specific species E.coli Aspergillus etc)  
\* STEC and Salmonella run as Multiplex



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