

# CERTIFICATE OF ANALYSIS

## ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 42003  
 Order Name: Hair Growth  
 Treatment 100 mg/2oz  
 Batch#: CCA-L1619  
 Received: 11/20/2019  
 Completed: 11/24/2019



CBD Hemp Experts  
 841 Prudential Drive, Suite 1200  
 Jacksonville FL, 32207  
 (904) 900-4747  
 info@cbdhempeexperts.com



### Sample



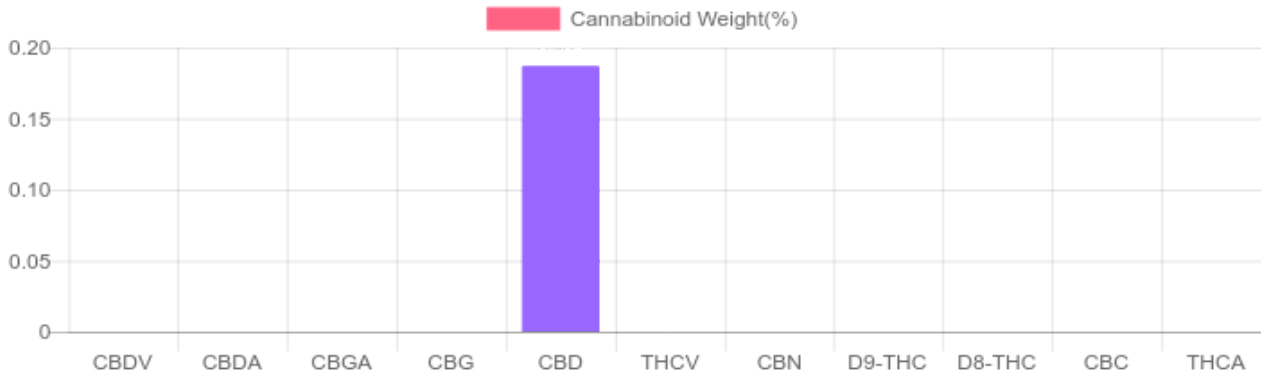
|                                   |                          |
|-----------------------------------|--------------------------|
| N/D<br>D9-THC                     | 0.187%<br>Total CBD      |
| 112.1 mg<br>Cannabinoids per unit | 112.1 mg<br>CBD per unit |

### Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA  
 GSL SOP 400      PREPARED: 11/21/2019 11:57:23      UPLOADED: 11/22/2019 12:01:32

| Cannabinoids       | LOQ    | weight(%)     | mg/g         | mg/unit      |
|--------------------|--------|---------------|--------------|--------------|
| D9-THC             | 10 PPM | N/D           | N/D          | N/D          |
| THCA               | 10 PPM | N/D           | N/D          | N/D          |
| CBD                | 10 PPM | <b>0.187%</b> | <b>1.868</b> | <b>112.1</b> |
| CBDA               | 20 PPM | N/D           | N/D          | N/D          |
| CBDV               | 20 PPM | N/D           | N/D          | N/D          |
| CBC                | 10 PPM | N/D           | N/D          | N/D          |
| CBN                | 10 PPM | N/D           | N/D          | N/D          |
| CBG                | 10 PPM | N/D           | N/D          | N/D          |
| 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       |        | <b>N/D</b>    | <b>N/D</b>   | <b>N/D</b>   |
| TOTAL CBD*         |        | <b>0.187%</b> | <b>1.868</b> | <b>112.1</b> |
| TOTAL CANNABINOIDS |        | <b>0.187%</b> | <b>1.868</b> | <b>112.1</b> |

1 unit = 60 ml per unit x density (1) 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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### PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 11/21/2019 14:37:10

UPLOADED: 11/23/2019 13:55:35

GCMS-MS - Shimadzu GCMS-TQ8040

| Pesticide | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|-----------|--------------------|---------------|-----------|-----------|
| FIPRONIL  | 0.100              | N/D           | 0.003     | 0.001     |

| Pesticide   | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|-------------|--------------------|---------------|-----------|-----------|
| FLUDIOXONIL | 0.100              | N/D           | 0.003     | 0.001     |

LCMS-MS - Shimadzu LCMS-8060

| Pesticide           | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|---------------------|--------------------|---------------|-----------|-----------|
| ABAMECTIN B1A       | 0.100              | N/D           | 0.005     | 0.001     |
| ACEPHATE            | 0.100              | N/D           | 0.001     | 0.001     |
| ACEQUINOCYL         | 0.100              | N/D           | 0.001     | 0.001     |
| ACETAMIPRID         | 0.100              | N/D           | 0.005     | 0.001     |
| ALDICARB            | 0.100              | N/D           | 0.005     | 0.001     |
| AZOXYSTROBIN        | 0.100              | N/D           | 0.001     | 0.001     |
| BIFENAZATE          | 0.100              | N/D           | 0.005     | 0.001     |
| BIFENTHRIN          | 3.000              | N/D           | 0.005     | 0.001     |
| BOSCALID            | 0.100              | N/D           | 0.005     | 0.001     |
| CARBARYL            | 0.500              | N/D           | 0.003     | 0.001     |
| CARBOFURAN          | 0.100              | N/D           | 0.001     | 0.001     |
| CHLORANTRANILIPROLE | 10.000             | N/D           | 0.005     | 0.005     |
| CHLORPYRIFOS        | 0.100              | N/D           | 0.001     | 0.001     |
| CLOFENTEZINE        | 0.100              | N/D           | 0.001     | 0.001     |
| DAMINOZIDE          | 0.100              | N/D           | 0.005     | 0.001     |
| DIAZANON            | 0.100              | N/D           | 0.001     | 0.001     |
| DICHLORVOS          | 0.100              | N/D           | 0.005     | 0.001     |
| DIMETHOATE          | 0.100              | N/D           | 0.001     | 0.001     |
| DIMETHOMORPH        | 2.000              | N/D           | 0.005     | 0.001     |
| ETHOPROPHOS         | 0.100              | N/D           | 0.001     | 0.001     |
| ETOFENPROX          | 0.100              | N/D           | 0.001     | 0.001     |
| ETOXAZOLE           | 0.100              | N/D           | 0.010     | 0.005     |
| FENHEXAMID          | 0.100              | N/D           | 0.005     | 0.001     |
| FENOXYCARB          | 0.100              | N/D           | 0.005     | 0.001     |
| FENPYROXIMATE       | 0.100              | N/D           | 0.001     | 0.001     |
| FLONICAMID          | 0.100              | N/D           | 0.025     | 0.010     |
| HEXYTHIAZOX         | 0.100              | N/D           | 0.005     | 0.001     |
| IMAZALIL            | 0.100              | N/D           | 0.005     | 0.001     |

| Pesticide                | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|--------------------------|--------------------|---------------|-----------|-----------|
| IMIDACLOPRID             | 5.000              | N/D           | 0.005     | 0.001     |
| KRESOXIM-METHYL          | 0.100              | N/D           | 0.010     | 0.005     |
| MALATHION                | 0.500              | N/D           | 0.005     | 0.001     |
| METALAXYL                | 2.000              | N/D           | 0.001     | 0.001     |
| METHIOCARB               | 0.100              | N/D           | 0.005     | 0.001     |
| METHOMYL                 | 1.000              | N/D           | 0.001     | 0.001     |
| MEVINPHOS                | 0.100              | N/D           | 0.001     | 0.001     |
| MYCLOBUTANIL             | 0.100              | N/D           | 0.005     | 0.001     |
| NALED                    | 0.100              | N/D           | 0.005     | 0.001     |
| OXAMYL                   | 0.500              | N/D           | 0.001     | 0.001     |
| PACLOBUTRAZOL            | 0.100              | N/D           | 0.005     | 0.001     |
| PERMETHRINS              | 0.500              | N/D           | 0.005     | 0.001     |
| PHOSMET                  | 0.100              | N/D           | 0.005     | 0.001     |
| PIPERONYL BUTOXIDE       | 3.000              | N/D           | 0.001     | 0.001     |
| PRALLETHRIN              | 0.100              | N/D           | 0.005     | 0.005     |
| PROPICONAZOLE            | 0.100              | N/D           | 0.010     | 0.005     |
| PROPOXUR                 | 0.100              | N/D           | 0.001     | 0.001     |
| PYRETHRINS (PYRETHRIN I) | 0.500              | N/D           | 0.005     | 0.005     |
| PYRIDABEN                | 0.100              | N/D           | 0.005     | 0.001     |
| SPINETORAM               | 0.100              | N/D           | 0.001     | 0.001     |
| SPINOSAD                 | 0.100              | N/D           | 0.001     | 0.001     |
| SPIROMESIFEN             | 0.100              | N/D           | 0.005     | 0.001     |
| SPIROTETRAMAT            | 0.100              | N/D           | 0.001     | 0.001     |
| SPIROXAMINE              | 0.100              | N/D           | 0.001     | 0.001     |
| TEBUCONAZOLE             | 0.100              | N/D           | 0.005     | 0.001     |
| THIACLOPRID              | 0.100              | N/D           | 0.001     | 0.001     |
| THIAMETHOXAM             | 5.000              | N/D           | 0.001     | 0.001     |
| TRIFLOXYSTROBIN          | 0.100              | N/D           | 0.001     | 0.001     |

N/D = Not Detected, A/LOQ = Above LOQ Level, B/LOQ = Below LOQ Level, B/LOD = Below LOD Level



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*(Signature)*  
 Dr. Andrew Hall, Ph.D., CSO & Lab Director

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### Microbial Analysis:

Microbial Analysis GSL SOP 406

Uploaded: 11/22/2019 15:20:00

PCR - Agilent AriaMX

| Test         | Test Method Used | Device Used | LOD             | Allowable Criteria | Actual Result | Pass/Fail |
|--------------|------------------|-------------|-----------------|--------------------|---------------|-----------|
| STEC E.COLI* | USP 61/62†       | ARIAMX PCR  | 2 COPIES OF DNA | PRESENCE / ABSENT  | BELOW LOD     | PASS      |
| SALMONELLA*  | USP 61/62†       | ARIAMX PCR  | 5 COPIES OF DNA | PRESENCE / ABSENT  | BELOW LOD     | PASS      |
| ASPERGILLUS  | USP 61/62†       | ARIAMX PCR  | ASP_LOD***      | PRESENCE / ABSENT  | BELOW 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

\*\*\* Flavus = 2 Copies of DNA / Fumigatis = 2 Copies of DNA Niger = 20 Copies of DNA / Terrus = 10 copies of DNA



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**PJLA**  
**Testing**  
 Accreditation #103104



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### Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030  
GSL SOP 403

Uploaded: 11/21/2019 16:32:41

| Metal        | Action Level (ppb) | Result (ppb) |
|--------------|--------------------|--------------|
| ARSENIC (AS) | 200                | B/LOQ        |
| CADMIUM (CD) | 200                | B/LOQ        |
| MERCURY (HG) | 100                | B/LOQ        |
| LEAD (PB)    | 500                | B/LOQ        |

Lower Limit of Quantitation (LOQ) is 75 ppb



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