### CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** Tincture - Mint

PRODUCT STRENGTH: 900 mg

**LOT NUMBER:** 191216C **BEST BY DATE:** 06/21

HEMP EXTRACT LOT NUMBER: 111919

#### Physical Atttributes

| Test                    | Method  | Specification  | Results |
|-------------------------|---------|--|---------|
| Color                   | SOP-100 | Golden to Amber  | PASS    |
| Odor                    | SOP-100 | Characteristic - Olive and hemp, minty   | PASS    |
| Appearance              | SOP-100 | Golden to Amber oil in brown glass bottle with dropper   | PASS    |
| Primary Package Eval.   | SOP-132 | Container clean and free of filth. Container caps tight and shrink bands intact                                  | PASS    |
| Secondary Package Eval. | SOP-132 | Labeling Compliance Checked, Cartons sturdy and clean. Sufficient cushion material exists. Box taped and secure. | PASS    |

#### Review of Third-Party Analysis

| Panel                             | Method  | Specification   | Results   | Pass/Fail |
|-----------------------------------|---|---|-----------|-----------|
| Potency - Total CBD               | SOP-111                                       | 855-1125 mg CBD<br>LOQ*: 10 PPM† (0.001%)   | 911.4 mg  | PASS      |
| Potency - D9-THC                  | SOP-111                                       | None Detected LOQ: 10 PPM (0.001%)  | <u>ND</u> | PASS      |
| FL Compliant Pesticide<br>Panel   | SOP-111                                       | Florida State Hemp Program<br>Rule 5B-57.014: Action Limits for<br>Pesticides                     | <u>ND</u> | PASS      |
| Microbial - Stec E.Coli           | SOP-111                                       | Complies with USP 61/62   | >LOD      | PASS      |
| Microbial - Salmonella            | SOP-111                                       | Complies with USP 61/62   | >LOD      | PASS      |
| Microbial - Aspergillus           | - Aspergillus SOP-111 Complies with USP 61/62 |   | >LOD      | PASS      |
| CA Compliant Heavy<br>Metal Panel | SOP-111                                       | Arsenic (As): ≤1.5 PPM<br>Cadmium (Cd): ≤0.5 PPM<br>Mercury (Hg): ≤1.0 PPM<br>Lead (Pb): ≤0.5 PPM | >LOQ      | PASS      |

<sup>\*</sup> Level of Quantitation, † Parts Per Million

Quality Certified by: Darcie Moran 1/17/2020

Darcie Moran Date

Director of Quality Assurance



Order #: 44695 Order Name: CTM900-191216C Batch#: 4

Received: 12/20/2019 Completed: 01/10/2020



#### Sample



N/D D9-THC 3.306% Total CBD

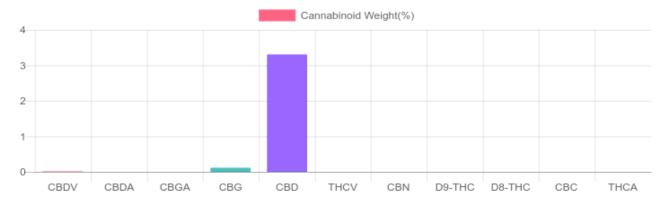
946.5 mg Cannabinoids per bottle 911.4 mg CBD per bottle

1 bottle = 30 ml per bottle x density (0.919) x Cannabinoid concentration

#### **Cannabinoids Test**

SHIMADZU INTEGRATED UPLC-PDA

| GSL SOP 400        | PREPARED: 12/ | 23/2019 11:57:57 | :57 <b>UPLOADED:</b> 12/23/2019 18: |           |
|--------------------|---------------|------------------|-------------------------------------|-----------|
| Cannabinoids       | LOQ           | weight(%)        | mg/g                                | mg/bottle |
| D9-THC             | 10 PPM        | N/D              | N/D                                 | N/D       |
| THCA               | 10 PPM        | N/D              | N/D                                 | N/D       |
| CBD                | 10 PPM        | 3.306%           | 33.057                              | 911.4     |
| CBDA               | 20 PPM        | N/D              | N/D                                 | N/D       |
| CBDV               | 20 PPM        | 0.013%           | 0.128                               | 3.5       |
| CBC                | 10 PPM        | N/D              | N/D                                 | N/D       |
| CBN                | 10 PPM        | N/D              | N/D                                 | N/D       |
| CBG                | 10 PPM        | 0.115%           | 1.146                               | 31.6      |
| 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*         |               | 3.306%           | 33.057                              | 911.4     |
| TOTAL CANNABINOIDS |               | 3.434%           | 34.331                              | 946.5     |



Reporting Limit 10 ppm
\*Total CBD = CBD + CBDA x 0.877

N/D - Not Detected, B/LOQ - Below Limit of Quantification

Dr. Andrew Hall, Ph.D., Chief Scientific Officer

Ben Witten, MS, MT., Lab Director

\_\_\_\_\_ info@greenscientificlabs.com or 1-833 TEST CBD

**Green Scientific Labs** 







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Order #: 44695 Order Name: CTM900-191216C Batch#: 4

Received: 12/20/2019 Completed: 01/10/2020



#### **PESTICIDE ANALYSIS:**

GSL SOP 401 PREPARED: 12/23/2019 15:47:09 UPLOADED: 12/26/2019 11:47:55

GCMS-MS - Shimadzu GCMS-TQ8040

| Pesticide    | Action Level (ppm) | Results<br>(ppm) | LOQ<br>(ppm) | LOD<br>(ppm) |
|--------------|--------------------|------------------|--------------|--------------|
| CHLORFENAPYR | 0.010              | N/D              | 0.003        | 0.001        |
| COUMAPHOS    | 0.010              | N/D              | 0.003        | 0.001        |
| CYFLUTHRIN   | 0.010              | N/D              | 0.003        | 0.001        |
| CYPERMETHRIN | 0.500              | N/D              | 0.003        | 0.001        |

| Pesticide              | Action Leve | l Results | LOQ   | LOD   |
|------------------------|-------------|-----------|-------|-------|
|                        | (ppm)       | (ppm)     | (ppm) | (ppm) |
| FIPRONIL               | 0.010       | N/D       | 0.003 | 0.001 |
| FLUDIOXONIL            | 0.020       | N/D       | 0.003 | 0.001 |
| PENTACHLORONITROBENZEN | E 0.030     | N/D       | 0.003 | 0.001 |

LCMS-MS - Shimadzu LCMS-8060

| Pesticide       | Action Level (ppm) | Results (ppm) | LOQ<br>(ppm) | LOD<br>(ppm) | Pesticide Action Leve (ppm) |       | Results (ppm) | LOQ<br>(ppm) | LOD<br>(ppm) |
|-----------------|--------------------|---------------|--------------|--------------|-----------------------------|-------|---------------|--------------|--------------|
| ABAMECTIN B1A   | 0.020              | N/D           | 0.005        | 0.001        | METALAXYL                   | 0.010 | N/D           | 0.001        | 0.001        |
| ACEPHATE        | 0.020              | N/D           | 0.001        | 0.001        | METHIOCARB                  | 0.010 | N/D           | 0.005        | 0.001        |
| ACEQUINOCYL     | 0.020              | N/D           | 0.001        | 0.001        | METHOMYL                    | 0.010 | N/D           | 0.001        | 0.001        |
| ACETAMIPRID     | 10.000             | N/D           | 0.005        | 0.001        | MEVINPHOS                   | 0.010 | N/D           | 0.001        | 0.001        |
| ALDICARB        | 0.010              | N/D           | 0.005        | 0.001        | MYCLOBUTANIL                | 0.020 | N/D           | 0.005        | 0.001        |
| AZOXYSTROBIN    | 0.100              | N/D           | 0.001        | 0.001        | NALED                       | 0.010 | N/D           | 0.005        | 0.001        |
| BIFENAZATE      | 0.010              | N/D           | 0.005        | 0.001        | OXAMYL                      | 0.026 | N/D           | 0.001        | 0.001        |
| CHLORPYRIFOS    | 0.020              | N/D           | 0.001        | 0.001        | PACLOBUTRAZOL               | 0.010 | N/D           | 0.005        | 0.001        |
| CLOFENTEZINE    | 0.040              | N/D           | 0.001        | 0.001        | PERMETHRINS                 | 0.020 | N/D           | 0.005        | 0.001        |
| DAMINOZIDE      | 0.010              | N/D           | 0.005        | 0.001        | PHOSMET                     | 0.020 | N/D           | 0.005        | 0.001        |
| DIAZANON        | 0.010              | N/D           | 0.001        | 0.001        | PIPERONYL                   | 3.000 | N/D           | 0.001        | 0.001        |
| DICHLORVOS      | 0.020              | N/D           | 0.005        | 0.001        | BUTOXIDE                    | 3.000 | IN/D          | 0.001        | 0.001        |
| DIMETHOATE      | 0.010              | N/D           | 0.001        | 0.001        | PRALLETHRIN                 | 0.020 | N/D           | 0.005        | 0.005        |
| DIMETHOMORPH    | 0.010              | N/D           | 0.005        | 0.001        | PROPICONAZOLE               | 0.020 | N/D           | 0.010        | 0.005        |
| ETHOPROPHOS     | 0.010              | N/D           | 0.001        | 0.001        | PROPOXUR                    | 0.020 | N/D           | 0.001        | 0.001        |
| ETOFENPROX      | 0.010              | N/D           | 0.001        | 0.001        | PYRETHRINS                  | 0.500 | N/D           | 0.005        | 0.005        |
| ETOXAZOLE       | 0.010              | N/D           | 0.010        | 0.005        | (PYRETHRIN I)               | 0.500 | IN/D          | 0.005        | 0.005        |
| FENHEXAMID      | 0.080              | N/D           | 0.005        | 0.001        | PYRIDABEN                   | 0.020 | N/D           | 0.005        | 0.001        |
| FENOXYCARB      | 0.010              | N/D           | 0.005        | 0.001        | SPINETORAM                  | 0.040 | N/D           | 0.001        | 0.001        |
| FENPYROXIMATE   | 0.100              | N/D           | 0.001        | 0.001        | SPINOSAD                    | 0.020 | N/D           | 0.001        | 0.001        |
| FLONICAMID      | 0.100              | N/D           | 0.025        | 0.010        | (SPINOSYN A)                | 0.020 | IN/D          | 0.001        | 0.001        |
| HEXYTHIAZOX     | 0.100              | N/D           | 0.005        | 0.001        | SPINOSAD                    | 0.020 | N/D           | 0.001        | 0.001        |
| IMAZALIL        | 0.010              | N/D           | 0.005        | 0.001        | (SPINOSYN D)                | 0.020 | IN/D          | 0.001        | 0.001        |
| IMIDACLOPRID    | 0.020              | N/D           | 0.005        | 0.001        | SPIROMESIFEN                | 0.030 | N/D           | 0.005        | 0.001        |
| KRESOXIM-METHYL | 0.020              | N/D           | 0.010        | 0.005        | SPIROTETRAMAT               | 0.020 | N/D           | 0.001        | 0.001        |
| MALATHION       | 0.010              | N/D           | 0.005        | 0.001        | SPIROXAMINE                 | 0.010 | N/D           | 0.001        | 0.001        |
|                 |                    |               |              |              | TEBUCONAZOLE                | 0.010 | N/D           | 0.005        | 0.001        |
|                 |                    |               |              |              | THIACLOPRID                 | 0.010 | N/D           | 0.001        | 0.001        |
|                 |                    |               |              |              |                             |       |               |              |              |

 ${\sf N/D} = {\sf Not\ Detected}, \ {\sf A/LOQ} = {\sf Above\ LOQ\ Level}, \ {\sf B/LOQ} = {\sf Below\ LOQ\ Level}, \ {\sf B/LOD} = {\sf Below\ LOD\ Level}$ 

Dr. Andrew Hall, Ph.D., Chief Scientific Officer

Ben Witten, MS, MT., Lab Director

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0.010

0.020



N/D



0.001

0.001



0.001

0.001

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THIAMETHOXAM

TRIFLOXYSTROBIN



Order #: 44695 Order Name: CTM900-191216C Batch#: 4 Received: 12/20/2019

Received: 12/20/2019 Completed: 01/10/2020



#### **Microbial Analysis:**

Microbial Analysis GSL SOP 406

Uploaded: 12/26/2019 13:07:08

| PCR - Agilent AriaMX <b>Test</b> | Test Method<br>Used | Device Used | LOD             | Allowable Criteria | Actual<br>Result | Pass/Fail |
|----------------------------------|---------------------|-------------|-----------------|--------------------|------------------|-----------|
| 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      |
| ASPERGILLUS                      | USP 61/62†          | ARIAMX PCR  | ASP_LOD***      | PRESENCE / ABSENT  | BELOW<br>LOD     | PASS      |

<sup>†</sup> USP 61 (enumeration of bacteria TAC, TYM, and ENT/Coliform), USP 62 (identifying specific species E.coli Aspergillus etc)

(Pm) FW

Dr. Andrew Hall, Ph.D., Chief Scientific Officer

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Ben Witten, MS, MT., Lab Director

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<sup>\*</sup> STEC and Salmonella run as Multiplex

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



Order #: 44695 Order Name: CTM900-191216C Batch#: 4 Received: 12/20/2019

Completed: 01/10/2020



#### **Heavy Metals Analysis:**

ICP-MS - Shimadzu ICPMS-2030 GSL SOP 403

Uploaded: 12/23/2019 20:16:47

| 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

Dr. Andrew Hall, Ph.D., Chief Scientific Officer

Ben Witten, MS, MT., Lab Director

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total cannabinoids

88.5%

84.61% CBD decarb total

> ND A9-THC

**This Product** Has Been **Tested and Complies with** 7USC1639o(1) **Definition of** Hemp









https://portal.a2la.org/scopepdf/4961-01.pdf

#### Sample Handling

| test ID   |      | sample  | e date | 12/4/19 | 2:46 | PM |
|-----------|------|---------|--------|---------|------|----|
| order 607 | 70 I | abID 9N | 1D44   | weight  | 5.4  | g  |
| source    |      |         |        |         |      |    |

| Methods    | method       | equipment   |
|------------|--------------|-------------|
| weights    | MSP-7.3.1.3  | AUX120.1    |
| potency    | MSP-7.5.1.5  | LC-2030     |
| terpenes   | MSP-7.5.1.7  | QP2020/HS20 |
| pesticides | MSP-7.5.1.8  | LC-8060     |
| mycotoxins | MSP-7.5.1.8  | LC-8060     |
| microbial  | MSP-7.5.1.9  | Hardy Diag  |
| solvents   | MSP-7.5.1.6  | QP2020/HS20 |
| metals     | MSP-7.5.1.10 | ICPMS2030   |

cannabichromene (CBC)

caryophyllene humulene terpinolene ocimene beta pinene alpha pinene limonene myrcene

linalool



HERBAL

#### concentrate



Pesticides (other)

acephate

aldicarb

boscalid

carbaryl

carbofuran

chlorpyrifos

clofentezine

cypermethrin

diazinon

dichlorvos

dimethoate

etofenprox

flonicamid

fludioxonil

malathion

metalaxyl

methiocarb

methomyl

permethrins

piperonyl butoxide

oxamyl

phosmet

prallethrin

pyridaben

spiroxamine

thiacloprid

tebuconazole

thiamethoxam

propiconazole

hexythiazox

kresoxym-methyl

fipronil

fenpyroximate

chloantraniliprole

acetamiprid

azoxystrobin

9MD44

0.00 ppm

0.01 ppm

0.00 ppm

0.00 ppm <10ppb

LOQ

<10ppb

| Potency  | %      | estimated<br>error | Terpenes        | %      | estimated<br>error |                 | %      | estimated<br>error |             | %      | estimated<br>error |
|--|--------|--------------------|-----------------|--------|--------------------|-----------------|--------|--------------------|-------------|--------|--------------------|
| tetrahydrocannabolic acid (THCa)                       | ND     | ± 0.02 %           | ß-myrcene       | 0.004% | ± 0.0018%          | camphene        | 0.000% | ± 0.0016 %         | quaiol      | 0.000% | ± 0.0016 %         |
| $\Delta^9$ -tetrahydrocannabinol ( $\Delta^9$ THC)     | ND     | ± 0.02 %           | ß-caryophyllene | 0.000% | ± 0.0016%          | Δ3-carene       |        |                    | B-bisabolol |        | ± 0.0016 %         |
| $\Delta^{8}$ -tetrahydrocannabinol ( $\Delta^{8}$ THC) | ND     | ± 0.02 %           | alpha-pinene    |        | , -                | a-terpenine     | 0.000% | ± 0.0016 %         | eucalyptol  |        | ± 0.0016 %         |
| tetrahydrocannabivarin (THCv)                          | ND     | ± 0.02 %           | B-pinene        | 0.008% | ± 0.0019%          | para-cymene     | 0.000% | ± 0.0016 %         | ,,          |        |                    |
| cannabidiolic acid (CBDa)                              | .14%   | ± 0.04 %           | D-limonene      | 0.000% | ± 0.0016%          | g-terpenine     | 0.000% | ± 0.0016 %         |             |        |                    |
| cannabidiol (CBD)                                      | 84.48% | ± 0.75 %           | linalool        | 0.000% | ± 0.0016%          | (-)-isopulegol  | 0.000% | ± 0.0016 %         |             | total  |                    |
| cannabidivarin (CBDv)                                  | .33%   | ± 0.05 %           | ocimene         | 0.000% | ± 0.0033%          | geraniol        | 0.000% | ± 0.0016 %         |             | terper | ies                |
| cannabigerolic acid (CBGa)                             | ND     | ± 0.02 %           | terpinolene     | 0.000% | ± 0.0016%          | cis-nerolidol   | 0.000% | ± 0.0016 %         |             | 0.0    | 1 0/               |
| cannabigerol (CBG)                                     | 3.54%  | ± 0.15 %           | alpha-humulene  | 0.000% | ± 0.0016%          | trans-nerolidol | 0.000% | ± 0.0016 %         |             | 0.0    | 1 %                |
| cannahinol (CBN)                                       | ND     | + 0 02 %           |                 |        |                    |                 |        |                    |             |        |                    |

| Solvents                      | MT limit 9     | MD44 L           | LOQ   | Pesticides (MT)       | MT limit         | 9MD44 | LOQ        |
|-------------------------------|----------------|------------------|-------|-----------------------|------------------|-------|------------|
| propane                       | 5,000 <b>P</b> | ASS <1           | 0ppm  | abamectin             | 2.50 ppm         | PASS  | <10ppb     |
| butanes                       | 5,000 <b>P</b> |                  | 0ppm  | acequinocyl           | 10.00 ppm        | PASS  | <10ppb     |
| pentanes                      | 5,000 PA       | <b>\SS</b> <1    | 0ppm  | bifenazate            | 1.00 ppm         | PASS  | <10ppb     |
| hexanes                       | 290 PA         |                  | 0ppm  | bifenthrin            | 1.00 ppm         | PASS  | <10ppb     |
| cyclohexane                   | 3,880 PA       |                  | 0ppm  | chlormequat cl.       | 5.00 ppm         | PASS  | <10ppb     |
| heptanes                      | 5,000 PA       | <b>\SS</b> <1    | 0ppm  | cyfluthrin            | 5.00 ppm         | PASS  | <80ppb     |
| methanol                      | 3,000 PA       | ASS <1           | 0ppm  | diaminozide           | 5.00 ppm         | PASS  | <10ppb     |
| isopropanol                   | 5,000 PA       |                  | 0ppm  | etoxazole             | 1.00 ppm         | PASS  | <10ppb     |
| acetone                       | 5,000 PA       |                  | 0ppm  | fenoxycarb            | 1.00 ppm         | PASS  | <10ppb     |
| ethyl acetate                 | -,             |                  | 0ppm  | imazalil              | 1.00 ppm         | PASS  | <10ppb     |
| benzene                       |                |                  | .2ppm | imidacloprid          | 2.00 ppm         | PASS  | <10ppb     |
| toluene                       |                |                  | 0ppm  | myclobutanil          | 0.60 ppm         | PASS  | <10ppb     |
| xylenes                       | , -            |                  | 0ppm  | paclobutrazol         | 2.00 ppm         | PASS  | <10ppb     |
| chloroform                    |                |                  | .2ppm | pyrethrins            | 5.00 ppm         | PASS  | <10ppb     |
| dichloromethane               | 600 <b>P</b>   | ASS <1           | 0ppm  | spinosad              | 1.00 ppm         | PASS  | <10ppb     |
|                               |                |                  |       | spiromesifen          | 1.00 ppm         | PASS  | <10ppb     |
| Toxic Metals MT III           | 014D44         | 1.00             |       | spirotetramat         | 1.00 ppm         | PASS  | <10ppb     |
| I OXIC Metals MT lin          | mit 9MD44      | LOQ              |       | trifloxystrobin       | 1.00 ppm         | PASS  | <10ppb     |
| arsenic 2 pp                  | m PASS         | <10ppb           |       |                       |                  |       |            |
| cadmium 4.1 pp<br>lead 1.2 pp |                | <10ppb<br><10ppb |       | Microbial             | MT limit         | 9MD44 | LOQ        |
| mercury 0.4 pp                |                | <10ppb           |       | E. coli               | 10 CFU           | PASS  | <10 CFU/q  |
| 111616dily 0.4 pt             | III FA33       | < 10bbn          |       | Salmonella sp.        | 10 CFU           | PASS  | <10 CFU/g  |
|                               |                |                  |       | molds                 | 10000 CFU        | PASS  | <10 OF 0/g |
|                               |                |                  |       | Aflatoxin B1,B2,G1,G2 | 20 ppb           | PASS  | <20 ppb    |
|                               |                |                  |       | Ochratoxin A          | 20 ppb<br>20 ppb | PASS  | <20 ppb    |
|                               |                |                  |       | Comacoxiii X          | 20 ρρυ           | FAGG  |            |

± 0.02 %

· All testing was completed onsite at 6073 US93N, Olney MT · · Potency (cannabinoid concentration) is calcuated from the equation: [cannabioid] = [cannabinoid]<sub>HPLC</sub> x volume<sub>dilution</sub>/m<sub>dry</sub>. Terpene concentration is calcuated from the equation: [terpene] = (terpene mass)<sub>GCMS</sub> / m<sub>dry</sub>. ••• Decarboxyted cannabinoid concentration is calculated from the equation XXX<sub>total</sub> = 0.877 x XXXa + XXX •••• Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; this is combined with error from weighing and dilution using the propagation of error formula  $s_q^2$  =  $\sum (\partial f/\partial i)^2 s_i^2$  where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration)  $\pm t_{CL90} \times s_g$ . Sampling error is not

Certified by:



Kyle Larson, MSc (Biology) Deputy Director 6073 US93N, Olney MT 59927 406-881-2019 rdb@stwlabs.co