

## Certificate of Analysis

Product: CBD Oil Tincture - 250mg

Lot Number: 0219-11

Date of Manufacture: Jan 25th, 2019

Type: THC-Free Phytocannabinoid-Rich Hemp Oil



### POTENCY RESULTS:

| Cannabinoid  | Wt. (%) | (mg/g) |
|--------------|---------|--------|
| CBD          | 87.66   | 876.58 |
| CBG          | <0.03   | <0.30  |
| CBN          | <0.03   | <0.30  |
| THC          | ND**    | ND**   |
| CBC          | <0.03   | <0.30  |
| THC-A        | ND**    | ND**   |
| CBD-A        | <0.03   | <0.30  |
| MAX THC      | ND**    | ND**   |
| MAX CBD      | 87.66   | 876.58 |
| TOTAL ACTIVE | 87.66   | 876.58 |

### Residual Solvents\*:

|           |                         |             |                         |
|-----------|-------------------------|-------------|-------------------------|
| Propane   | Compliant with USP<467> | Pentane     | Compliant with USP<467> |
| Isobutane | Compliant with USP<467> | Isopropanol | Compliant with USP<467> |
| Butane    | Compliant with USP<467> | Hexane      | Compliant with USP<467> |
| Ethanol   | Compliant with USP<467> | Acetone     | Compliant with USP<467> |

### Heavy Metals\*:

|         |                         |
|---------|-------------------------|
| Cadmium | Compliant with USP<233> |
| Lead    | Compliant with USP<233> |
| Arsenic | Compliant with USP<233> |
| Mercury | Compliant with USP<233> |

### TERPENE RESULTS\*:

|                        | Wt. (%) |                     | Wt. (%) |
|------------------------|---------|---------------------|---------|
| $\beta$ -Bisabolene    | 1.0-3.0 | Camphene            | 0.1-0.2 |
| $\beta$ -Farnesene     | 1.0-2.0 | E-Farnesene         | 0.1-0.2 |
| Guaiol                 | 0.5-2.0 | Farnesol            | 0.1-0.2 |
| $\beta$ -Maaliene      | 0.5-2.0 | $\alpha$ -Bisabolol | < 0.1   |
| Calarene               | 0.5-1.5 | P-Cymene            | < 0.1   |
| $\beta$ -Caryophyllene | 0.1-1.0 | Linalool            | < 0.1   |
| $\alpha$ -Humulene     | 0.1-1.0 | Myrcene             | < 0.1   |
| Cadinene               | 0.1-1.0 | Phytol              | < 0.1   |
| $\alpha$ -Gurjunene    | 0.1-0.5 | Isopulegol          | < 0.1   |
| d-Limonene             | 0.1-0.5 | Terpinene           | < 0.1   |
| Nerolidol              | 0.1-0.5 | Geraniol            | < 0.1   |
| $\alpha$ -Pinene       | 0.1-0.5 | Myrcene             | < 0.1   |
| Aristolene             | 0.1-0.3 | $\gamma$ -Terpinene | < 0.1   |
| Eucalyptol             | 0.1-0.2 | $\delta$ -3-Carene  | < 0.1   |

### Pesticides\*:

|              |       |               |       |
|--------------|-------|---------------|-------|
| Acequinocyl  | ND*** | Spinosad      | ND*** |
| Pyrethrium   | ND*** | Spirotetramat | ND*** |
| Spiromesifen | ND*** | Bifenazate    | ND*** |
| Abamectin    | ND*** | Fenoxycarb    | ND*** |
| Imidacloprid | ND*** | Paclbutrazol  | ND*** |

Test ID: 012419APO

\*Batches are sent out regularly for testing, not all batches tested

\*\* ND = Not Detected using a validated high-performance liquid chromatography test method

\*\*\* Pesticides are tested by a third party lab, ND = Not Detected at the Reporting Limit (RL)

### Batch Release:

Chemist: Zosha McKinney

25 Jan 2019

Manager: Kathryn Sears

25 Jan 2019

# Certificate of Quality Assurance

## I. General Information

**Description:** Thin Hemp oil with orange color/flavor  
**Serving Size:** 1 mL  
**Fill Count:** 30 mL

**Lot #** 0219-11

**Spec Rev:** 1  
**Bulk Item Code:** 3020  
**Daily Serving (ml):** 1 mL

## II. Test Report

|              | Attribute           | Spec Range                         | Result   | Method               |
|--------------|---------------------|------------------------------------|----------|----------------------|
| Physical     | Appearance          | Thin orange oil with orange flavor | Pass     | SOP 03.020.01        |
| Heavy Metals | Pb                  | NMT 10 mcg/day                     | 0.005    | ICP-MS               |
|              | Arsenic             | NMT 15 mcg/day                     | <0.001   | ICP-MS               |
|              | Methylmercury as Hg | NMT 2 mcg/day                      | <0.001   | ICP-MS               |
| Micro        | Cd                  | NMT 5 mcg/day                      | <0.001   | ICP-MS               |
|              | Total Plate Count   | < 1000 cfu/ g                      | <10      | USP <2021>           |
|              | Yeast & Mold        | <100 cfu/g                         | <10      | USP <2021>           |
|              | Total Coliforms     | < 100 cfu/g                        | <10      | AOAC 991.14          |
|              | E. coli             | < 10 cfu/g                         | <10      | AOAC 991.14          |
|              | Salmonella          | Negative in 25 g                   | Negative | Modified AOAC 998.09 |

**OIL BATCH NUMBER:** CONO19-10

**DATE OF MANUFACTURE:** 25Jan2019

*Expiration date is 18 months under sealed conditions.*

**ACTIVE INGREDIENTS:** THC-Free Phytocannabinoid-Rich Hemp Oil

**INACTIVE INGREDIENTS:** Grape Seed Oil, Orange Oil

| Attributes          | Acceptance Criteria                                     | Results   | Test Method |
|---------------------|---|---|-------------|
| Appearance          | Thin Oil  | Conforms  | QCU002      |
| Odor                | Characteristic  | Conforms  | QCU002      |
| Color               | Light Yellow to Yellow                                  | Conforms  | QCU002      |
| Cannabinoid Content | 95 - 110% of target concentration, THC - Report results | 250 mg total Phytocannabinoids per 1 oz, THC Not Detected | QCU001      |

| Package           | Acceptance Criteria  | Results  |
|-------------------|--|----------|
| Primary Package   | Container dedusted and wiped clean<br>Container caps screwed on tight                      | Conforms |
| Secondary Package | Carton Sturdy and clean<br>Sufficient cushion material exists<br>Carton taped on all sides | Conforms |