# Certificate of Analysis

*Amendment to CoA 190307P001-001

| | |
|---|---|
| Sample Name: | Orange Citrus CBD Oil 250mg |
| LIMS Sample ID: | 190307P001 |
| Batch #: | |
| Sample Metrc ID: | |
| Sample Type: | Infused, Liquid Edible |
| Batch Count: | |
| Sample Count: | |
| Unit Volume: | 30 Milliliters per Unit |
| Serving Volume: | 0.5 Milliliters per Serving |

| | |
|---|---|
| Date Collected: | 03/07/2019 |
| Date Received: | 03/07/2019 |
| Tested for: | Core CBD |
| License #: | |
| Address: | |
| Produced by: | |
| License #: | |
| Address: | |
| Overall result for batch: | |

## Moisture Test Results

| | % |
|---|---|
| Moisture | NT |

## Water Activity Test Results

| | Aw | Action Limit Aw |
|---|---|---|
| Water Activity | NT | |

## Cannabinoid Test Results 03/08/2019

Cannabinoid analysis utilizing High Performance Liquid Chromatography (HPLC, QSP 5-4-4-4)

| | mg/mL | LOD mg/mL | LOQ mg/mL |
|---|---|---|---|
| THC | ND | 0.000034 | 0.001 |
| THCa | ND | 0.000066 | 0.001 |
| CBD | 7.974 | 0.000057 | 0.001 |
| CBDa | 0.010 | 0.000038 | 0.001 |
| CBN | ND | 0.000029 | 0.001 |
| CBDV | 0.047 | 0.000065 | 0.001 |
| CBDVa | ND | 0.00003 | 0.001 |
| CBG | ND | 0.000086 | 0.001 |
| CBGa | ND | 0.000072 | 0.001 |
| THCV | ND | 0.000035 | 0.001 |
| Δ8 - THC | ND | 0.000083 | 0.001 |
| CBC | ND | 0.000095 | 0.001 |
| **Sum of Cannabinoids:** | **8.031** | | **240.930 mg/Unit** |
| Total THC (Δ9THC+0.877*THCa) | ND | | ND |
| Total CBD (CBD+0.877*CBDa) | 7.983 | | 239.490 mg/Unit |

| | Action Limit mg | |
|---|---|---|
| THC per Unit | 1000.0 | ND |
| THC per Serving | | ND |

## Microbiological Test Results 03/09/2019

PCR and fluorescence detection of microbiological impurities

| | | Action Limit |
|---|---|---|
| Shiga toxin-producing Escherichia coli | ND | ND |
| Salmonella spp. | ND | ND |
| Aspergillus fumigatus | NT | |
| Aspergillus flavus | NT | |
| Aspergillus niger | NT | |
| Aspergillus terreus | NT | |

## Heavy Metal Test Results 03/09/2019

Heavy metal analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

| | µg/g | Action Limit µg/g | LOD µg/g | LOQ µg/g |
|---|---|---|---|---|
| Cadmium | ND | 0.5 | 0.0032 | 0.01 |
| Lead | ND | 0.5 | 0.0080 | 0.025 |
| Arsenic | ND | 1.5 | 0.0032 | 0.01 |
| Mercury | ND | 3.0 | 0.0025 | 0.008 |

## Mycotoxin Test Results

Mycotoxin analysis utilizing HPLC-Mass Spectrometry

| | µg/kg | Action Limit µg/kg | LOD µg/kg | LOQ µg/kg |
|---|---|---|---|---|
| Aflatoxin B1, B2, G1, G2 | NT | | | |
| Ochratoxin A | NT | | | |

## Terpene Test Results 03/15/2019

Terpene analysis utilizing Gas Chromatography - Flame Ionization Detection (GC - FID)

| | mg/g | % | LOD mg/g | LOQ mg/g |
|---|---|---|---|---|
| ? Bisabolol | ND | ND | 0.02 | 0.07 |
| ? Pinene | <LOQ | <LOQ | 0.02 | 0.07 |
| 3 Carene | ND | ND | 0.02 | 0.07 |
| Borneol | ND | ND | 0.02 | 0.07 |
| ? Caryophyllene | ND | ND | 0.02 | 0.07 |
| Geraniol | ND | ND | 0.02 | 0.07 |
| ? Humulene | ND | ND | 0.02 | 0.07 |
| Terpinolene | ND | ND | 0.02 | 0.07 |
| Valencene | ND | ND | 0.02 | 0.07 |
| Menthol | ND | ND | 0.02 | 0.07 |
| Nerolidol | ND | ND | 0.02 | 0.07 |
| Camphene | ND | ND | 0.02 | 0.07 |
| Eucalyptol | ND | ND | 0.02 | 0.07 |
| ? Cedrene | ND | ND | 0.02 | 0.07 |
| Camphor | ND | ND | 0.02 | 0.07 |
| (-)-Isopulegol | ND | ND | 0.02 | 0.07 |
| Sabinene | ND | ND | 0.02 | 0.07 |
| ? Terpinene | ND | ND | 0.02 | 0.07 |
| ? Terpinene | ND | ND | 0.02 | 0.07 |
| Linalool | <LOQ | <LOQ | 0.02 | 0.07 |
| Limonene | 15.13 | 1.513 | 0.02 | 0.07 |
| Myrcene | 0.21 | 0.021 | 0.02 | 0.07 |
| Fenchol | ND | ND | 0.02 | 0.07 |
| ? Phellandrene | ND | ND | 0.02 | 0.07 |
| Caryophyllene Oxide | ND | ND | 0.02 | 0.07 |
| Terpineol | ND | ND | 0.02 | 0.07 |
| ? Pinene | ND | ND | 0.02 | 0.07 |
| R-(+)-Pulegone | ND | ND | 0.02 | 0.07 |
| Geranyl Acetate | ND | ND | 0.02 | 0.07 |
| Citronellol | ND | ND | 0.02 | 0.07 |
| p-Cymene | ND | ND | 0.02 | 0.07 |
| Ocimene | ND | ND | 0.02 | 0.07 |
| Guaiol | ND | ND | 0.02 | 0.07 |
| Phytol | ND | ND | 0.02 | 0.07 |
| Isoborneol | ND | ND | 0.02 | 0.07 |
| **Total Terpene Concentration:** | **15.34** | **1.534** | | |

## Sample Certification

Scan to verify at sclabs.com
Sample must be marked as public to be viewable

Mackenzie Whitman, LQC Verified By
Date: 03/15/2019

Josh Wurzer, President
Date: 03/15/2019

# Certificate of Analysis

*Amendment to CoA 190307P001-001

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|---|---|
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| Batch #: | |
| Sample Metrc ID: | |
| Sample Type: | Infused, Liquid Edible |
| Batch Count: | |
| Sample Count: | |
| Unit Volume: | 30 Milliliters per Unit |
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| Date Received: | 03/07/2019 |
| Tested for: | Core CBD |
| License #: | |
| Address: | |
| Produced by: | |
| License #: | |
| Address: | |
| Overall result for batch: | |

## Pesticide Test Results 03/09/2019

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry and GC-Mass Spectrometry

| | µg/g | Action Limit µg/g | LOD µg/g | LOQ µg/g |
|---|---|---|---|---|
| Abamectin | ND | 0.3 | 0.032 | 0.1 |
| Acephate | ND | 5.0 | 0.032 | 0.1 |
| Acequinocyl | ND | 4.0 | 0.032 | 0.1 |
| Acetamiprid | ND | 5.0 | 0.032 | 0.1 |
| Azoxystrobin | ND | 40.0 | 0.032 | 0.1 |
| Bifenazate | ND | 5.0 | 0.032 | 0.1 |
| Bifenthrin | ND | 0.5 | 0.032 | 0.1 |
| Boscalid | ND | 10.0 | 0.032 | 0.1 |
| Captan | ND | 5.0 | 0.032 | 0.1 |
| Carbaryl | ND | 0.5 | 0.032 | 0.1 |
| Chlorantraniliprole | ND | 40.0 | 0.032 | 0.1 |
| Clofentezine | ND | 0.5 | 0.032 | 0.1 |
| Cyfluthrin | ND | 1.0 | 0.032 | 0.1 |
| Cypermethrin | ND | 1.0 | 0.032 | 0.1 |
| Diazinon | ND | 0.2 | 0.032 | 0.1 |
| Dimethomorph | ND | 20.0 | 0.032 | 0.1 |
| Etoxazole | ND | 1.5 | 0.032 | 0.1 |
| Fenhexamid | ND | 10.0 | 0.032 | 0.1 |
| Fenpyroximate | ND | 2.0 | 0.032 | 0.1 |
| Flonicamid | ND | 2.0 | 0.032 | 0.1 |
| Fludioxonil | ND | 30.0 | 0.032 | 0.1 |
| Hexythiazox | ND | 2.0 | 0.032 | 0.1 |
| Imidacloprid | ND | 3.0 | 0.032 | 0.1 |
| Kresoxim-methyl | ND | 1.0 | 0.032 | 0.1 |
| Malathion | ND | 5.0 | 0.032 | 0.1 |
| Metalaxyl | ND | 15.0 | 0.032 | 0.1 |
| Methomyl | ND | 0.1 | 0.032 | 0.1 |
| Myclobutanil | ND | 9.0 | 0.032 | 0.1 |
| Naled | ND | 0.5 | 0.032 | 0.1 |
| Oxamyl | ND | 0.2 | 0.032 | 0.1 |
| Pentachloronitrobenzene | ND | 0.2 | 0.032 | 0.1 |
| Permethrin | ND | 20.0 | 0.032 | 0.1 |
| Phosmet | ND | 0.2 | 0.032 | 0.1 |
| Piperonylbutoxide | ND | 8.0 | 0.032 | 0.1 |
| Prallethrin | ND | 0.4 | 0.032 | 0.1 |
| Propiconazole | ND | 20.0 | 0.032 | 0.1 |
| Pyrethrins | ND | 1.0 | 0.032 | 0.1 |
| Pyridaben | ND | 3.0 | 0.032 | 0.1 |
| Spinetoram | ND | 3.0 | 0.032 | 0.1 |
| Spinosad | ND | 3.0 | 0.032 | 0.1 |
| Spiromesifen | ND | 12.0 | 0.032 | 0.1 |
| Spirotetramat | ND | 13.0 | 0.032 | 0.1 |
| Tebuconazole | ND | 2.0 | 0.032 | 0.1 |
| Thiamethoxam | ND | 4.5 | 0.032 | 0.1 |
| Trifloxystrobin | ND | 30.0 | 0.032 | 0.1 |

## Pesticide Test Results 03/09/2019

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry and GC-Mass Spectrometry

| | µg/g | Action Limit µg/g | LOD µg/g | LOQ µg/g |
|---|---|---|---|---|
| Aldicarb | ND | ND | 0.032 | 0.1 |
| Carbofuran | ND | ND | 0.032 | 0.1 |
| Chlordane | ND | ND | 0.032 | 0.1 |
| Chlorfenapyr | ND | ND | 0.032 | 0.1 |
| Chlorpyrifos | ND | ND | 0.032 | 0.1 |
| Coumaphos | ND | ND | 0.032 | 0.1 |
| Daminozide | ND | ND | 0.032 | 0.1 |
| DDVP (Dichlorvos) | ND | ND | 0.032 | 0.1 |
| Dimethoate | ND | ND | 0.032 | 0.1 |
| Ethoprop(hos) | ND | ND | 0.032 | 0.1 |
| Etofenprox | ND | ND | 0.032 | 0.1 |
| Fenoxycarb | ND | ND | 0.032 | 0.1 |
| Fipronil | ND | ND | 0.032 | 0.1 |
| Imazalil | ND | ND | 0.032 | 0.1 |
| Methiocarb | ND | ND | 0.032 | 0.1 |
| Methyl parathion | ND | ND | 0.032 | 0.1 |
| Mevinphos | ND | ND | 0.032 | 0.1 |
| Paclobutrazol | ND | ND | 0.032 | 0.1 |
| Propoxur | ND | ND | 0.032 | 0.1 |
| Spiroxamine | ND | ND | 0.032 | 0.1 |
| Thiacloprid | ND | ND | 0.032 | 0.1 |

## Foreign Material Test Results

NT

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Mackenzie Whitman, LQC Verified By
Date: 03/15/2019

Josh Wurzer, President
Date: 03/15/2019

# Certificate of Analysis

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| Batch Count: | |
| Sample Count: | |
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|---|---|
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| Date Received: | 03/07/2019 |
| Tested for: | Core CBD |
| License #: | |
| Address: | |
| Produced by: | |
| License #: | |
| Address: | |
| Overall result for batch: | |

## Residual Solvent Test Results

Residual Solvent analysis utilizing Gas Chromatography - Mass Spectrometry (GC - MS)

| | µg/g | Action Limit µg/g | LOD µg/g | LOQ µg/g |
|---|---|---|---|---|
| 1,2-Dichloroethane | NT | | | |
| Benzene | NT | | | |
| Chloroform | NT | | | |
| Ethylene Oxide | NT | | | |
| Methylene chloride | NT | | | |
| Trichloroethylene | NT | | | |
| Acetone | NT | | | |
| Acetonitrile | NT | | | |
| Butane | NT | | | |
| Ethanol | NT | | | |
| Ethyl acetate | NT | | | |
| Ethyl ether | NT | | | |
| Heptane | NT | | | |
| Hexane | NT | | | |
| Isopropyl Alcohol | NT | | | |
| Methanol | NT | | | |
| Pentane | NT | | | |
| Propane | NT | | | |
| Toluene | NT | | | |
| Total Xylenes | NT | | | |

## Batch Photo

## Note

## Sample Certification

Scan to verify at sclabs.com
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Mackenzie Whitman, LQC Verified By
Date: 03/15/2019

Josh Wurzer, President
Date: 03/15/2019