

# Certificate of Analysis

Sample Name: Tincture 500mg (natural)

LIMS Sample ID: 190425R023

Batch #:

Sample Metric ID:

Sample Type: Infused, Liquid Edible

Batch Count:

Sample Count:

Unit Volume: 30 Milliliters per Unit

Serving Mass:

Density: 0.9758 g/mL

Date Collected: 04/24/2019

Date Received: 04/25/2019

Tested for: Reef CBD

License #:

Address:

Produced by:

License #:

Address:

Overall result for batch:

## Moisture Test Results

| Moisture | %<br>NT |
|----------|---------|
|          |         |

## Cannabinoid Test Results

04/27/2019

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

|          | mg/mL  | %      | LOD mg/mL | LOQ mg/mL |
|----------|--------|--------|-----------|-----------|
| THC      | ND     | ND     | 0.0009    | 0.003     |
| THCa     | ND     | ND     | 0.0009    | 0.003     |
| CBD      | 20.573 | 2.1083 | 0.0009    | 0.003     |
| CBDa     | ND     | ND     | 0.0009    | 0.003     |
| CBN      | ND     | ND     | 0.0009    | 0.003     |
| CBDV     | 0.253  | 0.0259 | 0.0004    | 0.001     |
| CBDVa    | ND     | ND     | 0.0003    | 0.001     |
| CBG      | ND     | ND     | 0.001     | 0.003     |
| CBGa     | ND     | ND     | 0.0008    | 0.002     |
| THCV     | ND     | ND     | 0.0004    | 0.001     |
| Δ8 - THC | ND     | ND     | 0.0009    | 0.003     |
| CBC      | ND     | ND     | 0.0011    | 0.003     |
| THCVa    | ND     | ND     | 0.0013    | 0.004     |
| CBL      | ND     | ND     | 0.0021    | 0.006     |
| CBCa     | ND     | ND     | 0.0015    | 0.005     |

**Sum of Cannabinoids: 20.826 2.1342 624.780 mg/Unit**

Total THC (Δ9THC+0.877\*THCa) ND ND ND  
Total CBD (CBD+0.877\*CBDa) 20.573 2.1083 617.190 mg/Unit

THC per Unit Action Limit mg ND  
THC per Serving 1000.0

## Batch Photo

## Water Activity Test Results

| Water Activity | Aw<br>NT | Action Limit Aw |
|----------------|----------|-----------------|
|                |          |                 |

## Terpene Test Results

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

|                     | mg/g | % | LOD mg/g | LOQ mg/g |
|---------------------|------|---|----------|----------|
| ☐ Bisabolol         | NT   |   |          |          |
| ☐ Pinene            | NT   |   |          |          |
| 3 Carene            | NT   |   |          |          |
| Borneol             | NT   |   |          |          |
| ☐ Caryophyllene     | NT   |   |          |          |
| Geraniol            | NT   |   |          |          |
| ☐ Humulene          | NT   |   |          |          |
| Terpinolene         | NT   |   |          |          |
| Valencene           | NT   |   |          |          |
| Menthol             | NT   |   |          |          |
| Nerolidol           | NT   |   |          |          |
| Camphene            | NT   |   |          |          |
| Eucalyptol          | NT   |   |          |          |
| ☐ Cedrene           | NT   |   |          |          |
| Camphor             | NT   |   |          |          |
| (-)-Isopulegol      | NT   |   |          |          |
| Sabinene            | NT   |   |          |          |
| ☐ Terpinene         | NT   |   |          |          |
| ☐ Terpinene         | NT   |   |          |          |
| Linalool            | NT   |   |          |          |
| Limonene            | NT   |   |          |          |
| Myrcene             | NT   |   |          |          |
| Fenchol             | NT   |   |          |          |
| ☐ Phellandrene      | NT   |   |          |          |
| Caryophyllene Oxide | NT   |   |          |          |
| Terpineol           | NT   |   |          |          |
| ☐ Pinene            | NT   |   |          |          |
| R-(+)-Pulegone      | NT   |   |          |          |
| Geranyl Acetate     | NT   |   |          |          |
| Citronellol         | NT   |   |          |          |
| p-Cymene            | NT   |   |          |          |
| Ocimene             | NT   |   |          |          |
| Guaiaol             | NT   |   |          |          |
| Phytol              | NT   |   |          |          |
| Isoborneol          | NT   |   |          |          |

Total Terpene Concentration: NT

## Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019  
Authority: Section 26013, Business and Professions Code.  
Reference: Sections 26100, 26104 and 26110, Business and Professions Code.



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Josh Wurzer, President  
Date: 04/27/2019

CoA ID: 190425R023-001 - Page 1 of 3

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## Pesticide Test Results

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               | NT   |                   |          |          |
| Acephate                | NT   |                   |          |          |
| Acequinocyl             | NT   |                   |          |          |
| Acetamiprid             | NT   |                   |          |          |
| Azoxystrobin            | NT   |                   |          |          |
| Bifenazate              | NT   |                   |          |          |
| Bifenthrin              | NT   |                   |          |          |
| Boscalid                | NT   |                   |          |          |
| Captan                  | NT   |                   |          |          |
| Carbaryl                | NT   |                   |          |          |
| Chlorantraniliprole     | NT   |                   |          |          |
| Clofentezine            | NT   |                   |          |          |
| Cyfluthrin              | NT   |                   |          |          |
| Cypermethrin            | NT   |                   |          |          |
| Diazinon                | NT   |                   |          |          |
| Dimethomorph            | NT   |                   |          |          |
| Etoxazole               | NT   |                   |          |          |
| Fenhexamid              | NT   |                   |          |          |
| Fenpyroximate           | NT   |                   |          |          |
| Fonicamid               | NT   |                   |          |          |
| Fludioxonil             | NT   |                   |          |          |
| Hexythiazox             | NT   |                   |          |          |
| Imidacloprid            | NT   |                   |          |          |
| Kresoxim-methyl         | NT   |                   |          |          |
| Malathion               | NT   |                   |          |          |
| Metalaxyl               | NT   |                   |          |          |
| Methomyl                | NT   |                   |          |          |
| Myclobutanil            | NT   |                   |          |          |
| Naled                   | NT   |                   |          |          |
| Oxamyl                  | NT   |                   |          |          |
| Pentachloronitrobenzene | NT   |                   |          |          |
| Permethrin              | NT   |                   |          |          |
| Phosmet                 | NT   |                   |          |          |
| Piperonylbutoxide       | NT   |                   |          |          |
| Prallethrin             | NT   |                   |          |          |
| Propiconazole           | NT   |                   |          |          |
| Pyrethrins              | NT   |                   |          |          |
| Pyridaben               | NT   |                   |          |          |
| Spinetoram              | NT   |                   |          |          |
| Spinosad                | NT   |                   |          |          |
| Spiromesifen            | NT   |                   |          |          |
| Spirotetramat           | NT   |                   |          |          |
| Tebuconazole            | NT   |                   |          |          |
| Thiamethoxam            | NT   |                   |          |          |
| Trifloxystrobin         | NT   |                   |          |          |

## 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    |                    |           |           |

## Pesticide Test Results

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          | NT   |                   |          |          |
| Carbofuran        | NT   |                   |          |          |
| Chlordane         | NT   |                   |          |          |
| Chlorfenapyr      | NT   |                   |          |          |
| Chlorpyrifos      | NT   |                   |          |          |
| Coumaphos         | NT   |                   |          |          |
| Daminozide        | NT   |                   |          |          |
| DDVP (Dichlorvos) | NT   |                   |          |          |
| Dimethoate        | NT   |                   |          |          |
| Ethoprop(hos)     | NT   |                   |          |          |
| Etofenprox        | NT   |                   |          |          |
| Fenoxycarb        | NT   |                   |          |          |
| Fipronil          | NT   |                   |          |          |
| Imazalil          | NT   |                   |          |          |
| Methiocarb        | NT   |                   |          |          |
| Methyl parathion  | NT   |                   |          |          |
| Mevinphos         | NT   |                   |          |          |
| Padlobutrazol     | NT   |                   |          |          |
| Propoxur          | NT   |                   |          |          |
| Spiroxamine       | NT   |                   |          |          |
| Thiacloprid       | NT   |                   |          |          |

## Heavy Metal Test Results

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

|         | µg/g | Action Limit µg/g | LOD µg/g | LOQ µg/g |
|---------|------|-------------------|----------|----------|
| Cadmium | NT   |                   |          |          |
| Lead    | NT   |                   |          |          |
| Arsenic | NT   |                   |          |          |
| Mercury | NT   |                   |          |          |

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## 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   |                   |          |          |

## Note

## Microbiological Test Results

PCR and fluorescence detection of microbiological impurities

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

## Foreign Material Test Results

NT

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