

# Certificate of Quality Assurance

**PRODUCT NAME:** Natural Tincture  
**PRODUCT STRENGTH:** 500 mg  
**LOT NUMBER:** TNAT500-389  
**OIL BATCH NUMBER:** CON019-06  
**DATE OF MANUFACTURE:** 1/28/19  
*Expiration date is 18 months under sealed conditions.*  
**DATE OF ANALYSIS:** 1/28/19  
**ACTIVE INGREDIENT:** Phytocannabinoid-Rich Hemp Oil  
**INACTIVE INGREDIENTS:** Grapeseed Oil, Hempseed Oil

**JOY**<sup>TM</sup>  
**ORGANICS**

## Physical Attributes of Raw Hemp Oil

| Attribute         | Acceptance Criteria  | Result   |
|-------------------|--|----------|
| Appearance        | Viscous Dark Amber Oil<br>Possible Crystal Formation             | Conforms |
| Aroma             | Characteristic Hemp Aroma  | Conforms |
| Dissolution       | Not Cloudy or Turbid, Characteristic Color                       | Conforms |
| Microbial Testing | Total Aerobic Count <2000 cfu/g Total Yeast and Mold <2000 cfu/g | Conforms |

## Potency of Raw Hemp Oil

| Cannabinoid | Weight % |
|-------------|----------|
| CBD         | 92.12    |
| CBG         | <0.03    |
| CBN         | <0.03    |
| THC         | ND       |
| CBC         | <0.03    |
| THC-A       | ND       |
| CBD-A       | <0.03    |

## Pesticides\*

| Compound     | Result | Compound      | Result |
|--------------|--------|---------------|--------|
| Acequinocil  | ND     | Spinosad      | ND     |
| Pyrethrium   | ND     | Spirotetramat | ND     |
| Spiromesifin | ND     | Bifenazate    | ND     |
| Abamectin    | ND     | Fenoxycarb    | ND     |
| Imidacloprid | ND     | Paclobutrazol | ND     |

## Terpene Results\*

| Compound               | Weight % | Compound            | Weight % |
|------------------------|----------|---------------------|----------|
| $\beta$ -Bisabolene    | 1.0-3.0  | Camphene            | 0.1-0.2  |
| $\beta$ -Farnesene     | 1.0-2.0  | E-Farnesene         | 0.1-0.2  |
| Gualol                 | 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    |

## Residual Solvents\*

| Solvent     | Weight %                |
|-------------|-------------------------|
| Acetone     | Compliant with USP<467> |
| Butane      | Compliant with USP<467> |
| Ethanol     | Compliant with USP<467> |
| Hexane      | Compliant with USP<467> |
| Isobutane   | Compliant with USP<467> |
| Isopropanol | Compliant with USP<467> |
| Pentane     | Compliant with USP<467> |

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## Heavy Metals\*

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

## Analysis Results for Finished Product

| Attribute           | Acceptance Criteria                    | Result   |
|---------------------|--|----------|
| Appearance          | Clear Colorless to Light Yellow Liquid | Conforms |
| Aroma               | Characteristic Hemp Oil Aroma          | Conforms |
| Cannabidiol Content | Label Claim $\pm$ 10%                  | Conforms |
| THC Content         | None Detected                          | Conforms |

\* Results based on testing of multiple batches of hemp oil raw material.

Certified by: 

Matthew Plenert, Ph.D  
Head Chemist and Quality Manager

2-5-19

Date



This report cannot be used for ODA, OHA or OLCC compliance requirements.

**Customer:** My CBD Test

**Product identity:** TNAT500 389\*

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 19-002794-0003

**Relinquished by:** Received By Mail

**Temp:** 20 °C

**Serving Size #1:** 27.99 g

**Sample Results**

| Potency                          |        | Batch: 1902335 |         |       |          |                   |       |
|----------------------------------|--------|----------------|---------|-------|----------|-------------------|-------|
| Analyte                          | Result | Limits         | Units   | LOQ   | Analyze  | Method            | Notes |
| CBC per 30ml <sup>†</sup>        | < LOQ  |                | mg/30ml | 0.933 | 03/20/19 | J AOAC 2015 V98-6 |       |
| CBC-A per 30ml <sup>†</sup>      | < LOQ  |                | mg/30ml | 0.933 | 03/20/19 | J AOAC 2015 V98-6 |       |
| CBC-Total per 30ml <sup>†</sup>  | < LOQ  |                | mg/30ml | 1.75  | 03/20/19 | J AOAC 2015 V98-6 |       |
| CBD per 30ml                     | 540    |                | mg/30ml | 0.933 | 03/20/19 | J AOAC 2015 V98-6 |       |
| CBD-A per 30ml                   | < LOQ  |                | mg/30ml | 0.933 | 03/20/19 | J AOAC 2015 V98-6 |       |
| CBD-Total per 30ml               | 540    |                | mg/30ml | 1.75  | 03/20/19 | J AOAC 2015 V98-6 |       |
| CBDV per 30ml <sup>†</sup>       | 3.41   |                | mg/30ml | 0.933 | 03/20/19 | J AOAC 2015 V98-6 |       |
| CBDV-A per 30ml <sup>†</sup>     | < LOQ  |                | mg/30ml | 0.933 | 03/20/19 | J AOAC 2015 V98-6 |       |
| CBDV-Total per 30ml <sup>†</sup> | 3.41   |                | mg/30ml | 1.74  | 03/20/19 | J AOAC 2015 V98-6 |       |
| CBG per 30ml <sup>†</sup>        | < LOQ  |                | mg/30ml | 0.933 | 03/20/19 | J AOAC 2015 V98-6 |       |
| CBG-A per 30ml <sup>†</sup>      | < LOQ  |                | mg/30ml | 0.933 | 03/20/19 | J AOAC 2015 V98-6 |       |
| CBG-Total per 30ml <sup>†</sup>  | < LOQ  |                | mg/30ml | 1.75  | 03/20/19 | J AOAC 2015 V98-6 |       |
| CBL per 30ml <sup>†</sup>        | < LOQ  |                | mg/30ml | 0.933 | 03/20/19 | J AOAC 2015 V98-6 |       |
| CBN per 30ml                     | < LOQ  |                | mg/30ml | 0.933 | 03/20/19 | J AOAC 2015 V98-6 |       |
| Δ8-THC per 30ml <sup>†</sup>     | < LOQ  |                | mg/30ml | 0.933 | 03/20/19 | J AOAC 2015 V98-6 |       |
| Δ9-THC per 30ml                  | < LOQ  |                | mg/30ml | 0.933 | 03/20/19 | J AOAC 2015 V98-6 |       |
| THC-A per 30ml                   | < LOQ  |                | mg/30ml | 0.933 | 03/20/19 | J AOAC 2015 V98-6 |       |
| THC-Total per 30ml               | < LOQ  |                | mg/30ml | 1.75  | 03/20/19 | J AOAC 2015 V98-6 |       |
| THCV per 30ml <sup>†</sup>       | < LOQ  |                | mg/30ml | 0.933 | 03/20/19 | J AOAC 2015 V98-6 |       |
| THCV-A per 30ml <sup>†</sup>     | < LOQ  |                | mg/30ml | 0.933 | 03/20/19 | J AOAC 2015 V98-6 |       |
| THCV-Total per 30ml <sup>†</sup> | < LOQ  |                | mg/30ml | 1.74  | 03/20/19 | J AOAC 2015 V98-6 |       |

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Pixis quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be kept a maximum of 15 days from the report date unless prior arrangements have been made.



This report cannot be used for ODA, OHA or OLCC compliance requirements.

Potency Batch: 1902335

| Analyte                         | Result | Limits | Units      | LOQ  | Analyze  | Method            | Notes |
|---------------------------------|--------|--------|------------|------|----------|-------------------|-------|
| THCV-Total per Serving Size #1† | < LOQ  |        | mg/serving | 1.74 | 03/20/19 | J AOAC 2015 V98-6 |       |

Pesticides Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 1902297 Analyze 03/19/19 12:23 PM

| Analyte          | Result | Limits | LOQ   | Status | Notes | Analyte             | Result | Limits | LOQ   | Status | Notes |
|------------------|--------|--------|-------|--------|-------|---------------------|--------|--------|-------|--------|-------|
| Abamectin        | < LOQ  | 0.50   | 0.250 | pass   |       | Acephate            | < LOQ  | 0.40   | 0.250 | pass   |       |
| Acequinocyl      | < LOQ  | 2.0    | 1.00  | pass   |       | Acetamiprid         | < LOQ  | 0.20   | 0.100 | pass   |       |
| Aldicarb         | < LOQ  | 0.40   | 0.200 | pass   |       | Azoxystrobin        | < LOQ  | 0.20   | 0.100 | pass   |       |
| Bifenazate       | < LOQ  | 0.20   | 0.100 | pass   |       | Bifenthrin          | < LOQ  | 0.20   | 0.100 | pass   |       |
| Boscalid         | < LOQ  | 0.40   | 0.100 | pass   |       | Carbaryl            | < LOQ  | 0.20   | 0.100 | pass   |       |
| Carbofuran       | < LOQ  | 0.20   | 0.100 | pass   |       | Chlorantraniliprole | < LOQ  | 0.20   | 0.100 | pass   |       |
| Chlorfenapyr     | < LOQ  | 1.0    | 0.500 | pass   |       | Chlorpyrifos        | < LOQ  | 0.20   | 0.100 | pass   |       |
| Clofentezine     | < LOQ  | 0.20   | 0.100 | pass   |       | Cyfluthrin (incl.   | < LOQ  | 1.0    | 0.500 | pass   |       |
| Cypermethrin     | < LOQ  | 1.0    | 0.500 | pass   |       | Daminozide          | < LOQ  | 1.0    | 0.500 | pass   |       |
| Diazinon         | < LOQ  | 0.20   | 0.100 | pass   |       | Dichlorvos          | < LOQ  | 1.0    | 0.500 | pass   |       |
| Dimethoate       | < LOQ  | 0.20   | 0.100 | pass   |       | Ethoprophos         | < LOQ  | 0.20   | 0.100 | pass   |       |
| Etofenprox       | < LOQ  | 0.40   | 0.200 | pass   |       | Etoxazol            | < LOQ  | 0.20   | 0.100 | pass   |       |
| Fenoxycarb       | < LOQ  | 0.20   | 0.100 | pass   |       | Fenpyroximat        | < LOQ  | 0.40   | 0.200 | pass   |       |
| Fipronil         | < LOQ  | 0.40   | 0.200 | pass   |       | Fonicamid           | < LOQ  | 1.0    | 0.400 | pass   |       |
| Fludioxonil      | < LOQ  | 0.40   | 0.200 | pass   |       | Hexythiazox         | < LOQ  | 1.0    | 0.400 | pass   |       |
| Imazalil         | < LOQ  | 0.20   | 0.100 | pass   |       | Imidacloprid        | < LOQ  | 0.40   | 0.200 | pass   |       |
| Kresoxim-methyl  | < LOQ  | 0.40   | 0.200 | pass   |       | Malathion           | < LOQ  | 0.20   | 0.100 | pass   |       |
| Metalaxyl        | < LOQ  | 0.20   | 0.100 | pass   |       | Methiocarb          | < LOQ  | 0.20   | 0.100 | pass   |       |
| Methomyl         | < LOQ  | 0.40   | 0.200 | pass   |       | MGK-264             | < LOQ  | 0.20   | 0.100 | pass   |       |
| Myclobutanil     | < LOQ  | 0.20   | 0.100 | pass   |       | Naled               | < LOQ  | 0.50   | 0.250 | pass   |       |
| Oxamyl           | < LOQ  | 1.0    | 0.500 | pass   |       | Paclobutrazole      | < LOQ  | 0.40   | 0.200 | pass   |       |
| Parathion-Methyl | < LOQ  | 0.20   | 0.200 | pass   |       | Permethrin          | < LOQ  | 0.20   | 0.100 | pass   |       |
| Phosmet          | < LOQ  | 0.20   | 0.100 | pass   |       | Piperonyl butoxide  | < LOQ  | 2.0    | 1.00  | pass   |       |
| Prallethrin      | < LOQ  | 0.20   | 0.100 | pass   |       | Propiconazole       | < LOQ  | 0.40   | 0.200 | pass   |       |
| Propoxur         | < LOQ  | 0.20   | 0.100 | pass   |       | Pyrethrin I (total) | < LOQ  | 1.0    | 0.500 | pass   |       |
| Pyridaben        | < LOQ  | 0.20   | 0.100 | pass   |       | Spinosad            | < LOQ  | 0.20   | 0.100 | pass   |       |
| Spiromesifen     | < LOQ  | 0.20   | 0.100 | pass   |       | Spirotetramat       | < LOQ  | 0.20   | 0.100 | pass   |       |
| Spiroxamin       | < LOQ  | 0.40   | 0.200 | pass   |       | Tebuconazol         | < LOQ  | 0.40   | 0.200 | pass   |       |
| Thiacloprid      | < LOQ  | 0.20   | 0.100 | pass   |       | Thiamethoxam        | < LOQ  | 0.20   | 0.100 | pass   |       |
| Trifloxystrobin  | < LOQ  | 0.20   | 0.100 | pass   |       |                     |        |        |       |        |       |



This report cannot be used for ODA, OHA or OLCC compliance requirements.

**Abbreviations**

**Limits:** Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

**Limit(s) of Quantitation (LOQ):** The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

**Glossary of Qualifiers**

† = Analyte not NELAP accredited.

**Units of Measure**

g = Gram

mg/kg = Milligram per kilogram

mg/serving = Milligram per serving size 1

% = Percentage of sample

% wt =  $\mu\text{g/g}$  divided by 10,000

Approved Signatory

Derrick Tanner  
General Manager