

Certificate of Quality Assurance

PRODUCT NAME: Tranquil Mint Tincture

PRODUCT STRENGTH: 1500 mg

LOT NUMBER: TM1500-362

OIL BATCH NUMBER: CON018-08

DATE OF MANUFACTURE: 1/4/19

Expiration date is 18 months under sealed conditions.

DATE OF ANALYSIS: 1/4/19

ACTIVE INGREDIENT: Phytocannabinoid-Rich Hemp Oil

INACTIVE INGREDIENTS: Grapeseed Oil, Hempseed Oil, Peppermint Essential Oil, Stevia

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Physical Attributes of Raw Hemp Oil

| Attribute | Acceptance Criteria | Result |
|-------------------|--|----------|
| Appearance | Viscous Dark Amber Oil 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 | 80 |
| 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 % |
|------------------------|----------|---------------------|----------|
| β -Bisabolene | 1.0-3.0 | Camphene | 0.1-0.2 |
| β -Farnesene | 1.0-2.0 | E-Farnesene | 0.1-0.2 |
| Gualol | 0.5-2.0 | Farnesol | 0.1-0.2 |
| β -Maaliene | 0.5-2.0 | α -Bisabolol | < 0.1 |
| Calarene | 0.5-1.5 | p-Cymene | < 0.1 |
| β -Caryophyllene | 0.1-1.0 | Linalool | < 0.1 |
| α -Humulene | 0.1-1.0 | Myrcene | < 0.1 |
| Cadinene | 0.1-1.0 | Phytol | < 0.1 |
| α -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 |
| α -Pinene | 0.1-0.5 | Myrcene | < 0.1 |
| Aristolene | 0.1-0.3 | γ -Terpinene | < 0.1 |
| Eucalyptol | 0.1-0.2 | δ -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 Mint Flavor | 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

1-7-19

Date