

Certificate of Quality Assurance

PRODUCT NAME: 1 oz Salve
PRODUCT STRENGTH: 450 mg
LOT NUMBER: HB1OZ500-T170
OIL BATCH NUMBER: CONO19-75
DATE OF MANUFACTURE: 7/11/2019
Expiration date is 18 months under sealed conditions.
DATE OF ANALYSIS: 7/11/2019
ACTIVE INGREDIENT: Phytocannabinoid-Rich Hemp Oil
INACTIVE INGREDIENTS: See next page.



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 |

Cannabinoid Potency of Raw Hemp Oil

| Cannabinoid | Weight % |
|-------------|----------|
| CBD | 84.99 |
| 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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DATE OF MANUFACTURE: 7/11/2019

Expiration date is 18 months under sealed conditions.

DATE OF ANALYSIS: 7/11/2019

ACTIVE INGREDIENT: Phytocannabinoid-Rich Hemp Oil

INACTIVE INGREDIENTS: Organic Medium Chain Triglycerides, Organic Beeswax, Organic Lavender Essential Oil, Organic Eucalyptus Essential Oil

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 | White to Light Yellow Solid at Room Temperature | Conforms |
| Aroma | Characteristic Lavender and Eucalyptus Aroma | Conforms |
| Cannabidiol Content | 95 to 110% of Label Claim | Conforms |
| THC Content | None Detected | Conforms |

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

Quality Certified by:



7-22-19

Matthew Plenert, Ph.D
Head Chemist and Laboratory Manager

Date

QC Unit released by:



7-22-19

David Boaz
QC Manager

Date



CERTIFICATE OF ANALYSIS

SALVE 450 mg

RECEIVED ON 07/18/19


ASSAYED ON 07/18/19

LAB#
205344

LOT#
190709T170
HB1OZ500-T170

| <u>ASSAY</u> | <u>RESULTS</u> |
|--------------|-------------------------|
| CBD | 1.592%w/w |
| CBD | 451.4mg/OZ-PASSES TEST |
| THC | NON-DETECT -PASSES TEST |
| DENSITY | 0.956g/mL |

METHODS: CIA D-351
CIA D-36.1


Roger Rohrer Date 7/19/19
Quality Assurance



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Microbiology

| Analyte | Result | Limits | Units | LOQ | Batch | Analyze | Method | Notes |
|-----------------|--------|--------|-------|-----|---------|----------|------------------------|-------|
| E.coli | < LOQ | | cfu/g | 10 | 1906335 | 07/19/19 | AOAC 991.14 (Petriilm) | X |
| Total Coliforms | < LOQ | | cfu/g | 10 | 1906335 | 07/19/19 | AOAC 991.14 (Petriilm) | X |
| Mold | < LOQ | | cfu/g | 10 | 1906334 | 07/19/19 | AOAC 2014.05 (RAPID) | X |
| Yeast | < LOQ | | cfu/g | 10 | 1906334 | 07/19/19 | AOAC 2014.05 (RAPID) | X |

Pesticides Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 1906385 Analyze 07/18/19 09:26 AM

| 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 | | Acetamidrid | < 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 | | Etoxazole | < LOQ | 0.20 | 0.100 | pass | |
| Fenoxycarb | < LOQ | 0.20 | 0.100 | pass | | Fenpyroximate | < 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 | | Paclbutrazole | < 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 | |
| Spiroxamine | < LOQ | 0.40 | 0.200 | pass | | Tebuconazole | < 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 | | | | | | | |



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| Metals | | | | | | | | |
|---------|--------|--------|-------|--------|---------|----------|--------------|-------|
| Analyte | Result | Limits | Units | LOQ | Batch | Analyze | Method | Notes |
| Arsenic | < LOQ | | mg/kg | 0.0477 | 1906535 | 07/22/19 | AOAC 2013.06 | X |
| Cadmium | < LOQ | | mg/kg | 0.0477 | 1906535 | 07/22/19 | AOAC 2013.06 | X |
| Lead | < LOQ | | mg/kg | 0.0477 | 1906535 | 07/22/19 | AOAC 2013.06 | X |
| Mercury | < LOQ | | mg/kg | 0.0239 | 1906535 | 07/22/19 | AOAC 2013.06 | X |



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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.

† = Analyte not NELAP accredited.

Units of Measure

cfu/g = Colony forming units per gram

g = Gram

mg/kg = Milligram per kilogram = parts per million (ppm)

mg/28.35g = Milligram per 28.35g

% = Percentage of sample

% wt = µg/g divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager