# **Certificate of Quality Assurance**

PRODUCT NAME: Lemon Tincture
PRODUCT STRENGTH: 450 mg
LOT NUMBER: HTL500-T162
OIL BATCH NUMBER: CONO19-75
DATE OF MANUFACTURE: 7/2/2019

Expiration date is 18 months under sealed conditions.

**DATE OF ANALYSIS:** 7/2/2019

**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 ANALYSIS: 7/2/2019

ACTIVE INGREDIENT: Phytocannabinoid-Rich Hemp Oil

INACTIVE INGREDIENTS: Organic Medium Chain Triglycerides, Organic Lemon Essential Oil, Humulene,

Myrcene, Beta-Caryophyllene

#### Heavy Metals\*

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

JOY ORGANICS

**Analysis Results for Finished Product** 

Attribute	Acceptance Criteria	Result
Appearance	Clear Colorless to Light Yellow Liquid	Conforms
Aroma	Characteristic Lemon Flavor	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:

Matthew Plenert, Ph.D

Head Chemist and Quality Manager

Date

7-12-18





 Job Number:
 19-008016

 Report Number:
 19-008016-00

 Report Date:
 07/16/2019

**Purchase Order:** 

ORELAP#:

**Received:** 07/09/19 10:40

OR100028

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

Product identity:HTL500-T162Client/Metrc ID:.Laboratory ID:19-008016-0001Sample Date:

Summary

Potency:

Analyte per 30ml	Result	Limits	Units	LOQ	CBD-Total per 30ml	488 mg/30ml
CBD per 30ml CBDV per 30ml <sup>†</sup>	488 4.62		mg/30ml mg/30ml	0.94 0.94	THC-Total per 30ml	< 1.765 mg/30ml

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All analytes passing and less than LOQ.

#### Metals:

Less than LOQ for all analytes.

## Microbiology:

Less than LOQ for all analytes.





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Customer: My CBD Test

Product identity: HTL500-T162

Client/Metrc ID: .

Sample Date:

Laboratory ID: 19-008016-0001
Relinquished by: Received By Mail

**Temp:** 24.2 °C **Serving Size #1:** 28.2 g

## Sample Results

Potency per 30ml		Batch: 1906	3242			
Analyte	Result	Limits Units	LOQ	Analyze	Method	Notes
CBC per 30ml <sup>†</sup>	< LOQ	mg/30ml	0.940	07/15/19	J AOAC 2015 V98-6	
CBC-A per 30ml <sup>†</sup>	< LOQ	mg/30ml	0.940	07/15/19	J AOAC 2015 V98-6	
CBC-Total per 30ml <sup>†</sup>	< LOQ	mg/30ml	1.77	07/15/19	J AOAC 2015 V98-6	
CBD per 30ml	488	mg/30ml	0.940	07/15/19	J AOAC 2015 V98-6	
CBD-A per 30ml	< LOQ	mg/30ml	0.940	07/15/19	J AOAC 2015 V98-6	
CBD-Total per 30ml	488	mg/30ml	1.77	07/15/19	J AOAC 2015 V98-6	
CBDV per 30ml <sup>†</sup>	4.62	mg/30ml	0.940	07/15/19	J AOAC 2015 V98-6	
CBDV-A per 30ml <sup>†</sup>	< LOQ	mg/30ml	0.940	07/15/19	J AOAC 2015 V98-6	
CBDV-Total per 30ml <sup>†</sup>	4.62	mg/30ml	1.75	07/15/19	J AOAC 2015 V98-6	
CBG per 30ml <sup>†</sup>	< LOQ	mg/30ml	0.940	07/15/19	J AOAC 2015 V98-6	
CBG-A per 30ml <sup>†</sup>	< LOQ	mg/30ml	0.940	07/15/19	J AOAC 2015 V98-6	
CBG-Total per 30ml <sup>†</sup>	< LOQ	mg/30ml	1.77	07/15/19	J AOAC 2015 V98-6	
CBL per 30ml <sup>†</sup>	< LOQ	mg/30ml	0.940	07/15/19	J AOAC 2015 V98-6	
CBN per 30ml	< LOQ	mg/30ml	0.940	07/15/19	J AOAC 2015 V98-6	
$\Delta 8$ -THC per 30ml $^{\dagger}$	< LOQ	mg/30ml	0.940	07/15/19	J AOAC 2015 V98-6	
Δ9-THC per 30ml	< LOQ	mg/30ml	0.940	07/15/19	J AOAC 2015 V98-6	
THC-A per 30ml	< LOQ	mg/30ml	0.940	07/15/19	J AOAC 2015 V98-6	
THC-Total per 30ml	< LOQ	mg/30ml	1.77	07/15/19	J AOAC 2015 V98-6	
THCV per 30ml <sup>†</sup>	< LOQ	mg/30ml	0.940	07/15/19	J AOAC 2015 V98-6	
THCV-A per 30ml <sup>†</sup>	< LOQ	mg/30ml	0.940	07/15/19	J AOAC 2015 V98-6	
THCV-Total per 30ml <sup>†</sup>	< LOQ	mg/30ml	1.75	07/15/19	J AOAC 2015 V98-6	





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Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	1906084	07/12/19	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	1906084	07/12/19	AOAC 991.14 (Petrifilm)	Χ
Mold	< LOQ		cfu/g	10	1906082	07/12/19	AOAC 2014.05 (RAPID)	X
Yeast	< LOQ		cfu/g	10	1906082	07/12/19	AOAC 2014.05 (RAPID)	X

Pesticides	Method	AOAC	2007.01 & EN	l 15662 (mod)	Units mg/kg Batcl	h 1906126	Analy	ze 07/10/19 02:20 PM
Analyte	Result		LOQ Status	` '	Analyte	Result		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		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		Flonicamid	< 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
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	0.0483	1906277	07/12/19	AOAC 2013.06	Χ
Cadmium	< LOQ		mg/kg	0.0483	1906277	07/12/19	AOAC 2013.06	X
Lead	< LOQ		mg/kg	0.0483	1906277	07/12/19	AOAC 2013.06	X
Mercury	< LOQ		mg/kg	0.0241	1906277	07/12/19	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/28.2g = Milligram per 28.2g % = Percentage of sample % wt =  $\mu$ g/g divided by 10,000

#### Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner General Manager