Certificate of Quality Assurance

PRODUCT NAME: Orange Tincture PRODUCT STRENGTH: 900 mg LOT NUMBER: HTO1000-T146 OIL BATCH NUMBER: CONO19-75 DATE OF MANUFACTURE: 6/25/2019

Expiration date is 18 months under sealed conditions.

DATE OF ANALYSIS: 6/25/2019

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
СВС	<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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PRODUCT STRENGTH: 900 mg
LOT NUMBER: HTO1000-T146
OIL BATCH NUMBER: CONO19-75
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Expiration date is 18 months under sealed conditions.

DATE OF ANALYSIS: 6/25/2019

ACTIVE INGREDIENT: Phytocannabinoid-Rich Hemp Oil

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

Myrcene, Beta-Caryophyllene

Heavy	Meta	15*
IICavy	IAICTA	13

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 Orange 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 Laboratory Manager

Date

QC Unit released by:

David Boaz

QC Manager

Date





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

Product identity:	HTO1000-T146	Client/Metrc ID:	
Laboratory ID:	19-007605-0006	Sample Date:	

Summary

Potency:

Analyte per 30ml	Result	Limits	Units mg/30ml	LOQ 0.943	CBD-Total per 30ml	942 mg/30ml
CBD per 30ml CBDV per 30ml [†]	942 9.06		mg/30ml	0.943	THC-Total per 30ml	< 1.772 mg/30ml

Pest	ici	des	:
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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: HTO1000-T146

Client/Metrc ID: .

Sample Date:

Laboratory ID: 19-007605-0006

Relinquished by: Received By Mail

Temp: 21.6 °C **Serving Size #1:** 28.3 g

Sample Results

Potency per 30ml		Batch: 1905	982			
Analyte	Result	Limits Units	LOQ	Analyze	Method	Notes
CBC per 30ml [†]	< LOQ	mg/30ml	0.943	07/05/19	J AOAC 2015 V98-6	
CBC-A per 30ml [†]	< LOQ	mg/30ml	0.943	07/05/19	J AOAC 2015 V98-6	
CBC-Total per 30ml [†]	< LOQ	mg/30ml	1.77	07/05/19	J AOAC 2015 V98-6	
CBD per 30ml	942	mg/30ml	0.943	07/05/19	J AOAC 2015 V98-6	
CBD-A per 30ml	< LOQ	mg/30ml	0.943	07/05/19	J AOAC 2015 V98-6	
CBD-Total per 30ml	942	mg/30ml	1.77	07/05/19	J AOAC 2015 V98-6	
CBDV per 30ml [†]	9.06	mg/30ml	0.943	07/05/19	J AOAC 2015 V98-6	
CBDV-A per 30ml [†]	< LOQ	mg/30ml	0.943	07/05/19	J AOAC 2015 V98-6	
CBDV-Total per 30ml [†]	9.06	mg/30ml	1.76	07/05/19	J AOAC 2015 V98-6	
CBG per 30ml [†]	< LOQ	mg/30ml	0.943	07/05/19	J AOAC 2015 V98-6	
CBG-A per 30ml [†]	< LOQ	mg/30ml	0.943	07/05/19	J AOAC 2015 V98-6	
CBG-Total per 30ml [†]	< LOQ	mg/30ml	1.77	07/05/19	J AOAC 2015 V98-6	
CBL per 30ml [†]	< LOQ	mg/30ml	0.943	07/05/19	J AOAC 2015 V98-6	
CBN per 30ml	< LOQ	mg/30ml	0.943	07/05/19	J AOAC 2015 V98-6	
$\Delta 8$ -THC per 30ml †	< LOQ	mg/30ml	0.943	07/05/19	J AOAC 2015 V98-6	
Δ9-THC per 30ml	< LOQ	mg/30ml	0.943	07/05/19	J AOAC 2015 V98-6	
THC-A per 30ml	< LOQ	mg/30ml	0.943	07/05/19	J AOAC 2015 V98-6	
THC-Total per 30ml	< LOQ	mg/30ml	1.77	07/05/19	J AOAC 2015 V98-6	
THCV per 30ml [†]	< LOQ	mg/30ml	0.943	07/05/19	J AOAC 2015 V98-6	
THCV-A per 30ml [†]	< LOQ	mg/30ml	0.943	07/05/19	J AOAC 2015 V98-6	
THCV-Total per 30ml [†]	< LOQ	mg/30ml	1.76	07/05/19	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	1905776	06/30/19	AOAC 991.14 (Petrifilm)	X	
Total Coliforms	< LOQ		cfu/g	10	1905776	06/30/19	AOAC 991.14 (Petrifilm)	X	
Mold	< LOQ		cfu/g	10	1905777	06/30/19	AOAC 2014.05 (RAPID)	X	
Yeast	< LOQ		cfu/g	10	1905777	06/30/19	AOAC 2014.05 (RAPID)	X	

Docticidos	Mothod	۸۸۸۸	2007 04 9 EN	15662 (mad)	Unite malka Betah	1005065	Analu	770 07/02/10 00:40 004
Pesticides Analyte	Result		LOQ Status	, ,	Units mg/kg Batch Analyte	Result		ze 07/02/19 09:40 AM s LOQ Status Notes
Abamectin	< LOQ	0.50	0.250 pass	Notes	Acephate	< LOQ	0.40	0.250 pass
		2.0	•		·			·
Acequinocyl	< LOQ		1.00 pass		Acetamiprid	< LOQ	0.20	0.100 pass
Aldicarb	< LOQ < LOQ	0.40	0.200 pass		Azoxystrobin Bifenthrin	< LOQ < LOQ	0.20	0.100 pass
Bifenazate Boscalid	< LOQ < LOQ	0.20	0.100 pass			< LOQ < LOQ	0.20 0.20	0.100 pass
		0.40	0.100 pass		Carbaryl			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	0.0477	1905947	07/03/19	AOAC 2013.06	Χ
Cadmium	< LOQ		mg/kg	0.0477	1905947	07/03/19	AOAC 2013.06	Χ
Lead	< LOQ		mg/kg	0.0477	1905947	07/03/19	AOAC 2013.06	Χ
Mercury	< LOQ		mg/kg	0.0239	1905947	07/03/19	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/28.3g = Milligram per 28.3g % = Percentage of sample % wt = μ g/g divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner General Manager