



## CERTIFICATE OF QUALITY ASSURANCE

**PRODUCT NAME:** Phytocannabinoid-Rich Hemp Oil Tinctures

**PRODUCT CODE:** CF-T-TO-750mg/1oz-CIN-HS-BULK

**LOT NUMBER:** JP070919T1 (Sales Order# HEWO-004-MS-2, Total of 22,950 g cannabinoids, Total of 856,800 g Oil)

**OIL BATCH NUMBER:** COTO19-22 / COTO19-24

**DATE OF MANUFACTURE:** 09Jul2019

*Expiration date is 18 months under sealed conditions.*

**ACTIVE INGREDIENTS:** Phytocannabinoid-Rich Hemp Oil

**INACTIVE INGREDIENTS:** Hemp Seed Oil, Cinnamon Oil

Attributes	Acceptance Criteria	Results	Test Method
Appearance	Thin Oil	Conforms	QCU002
Odor	Characteristic	Conforms	QCU002
Color	Green	Conforms	QCU002
Cannabinoid Content	95 - 110% of target concentration, THC - Report results	750 mg total Phytocannabinoids per 1 oz, THC < 0.3%	QCU001

Package	Acceptance Criteria	Results
Primary Package	Container dedusted and wiped clean Container caps screwed on tight	Conforms
Secondary Package	Carton Sturdy and clean Sufficient cushion material exists Carton taped on all sides	Conforms

Note: Bulk tinctures assume an oil density of 0.92g/mL. Therefore, to fill 1 oz tinctures, we recommend filling them to 28 grams in order to ensure accurate dosing. The density can be used to calculate the fill weight for other package sizes.

Storage: Room Temperature, Protect from Light

Prepared by: Jason M. King Inspection Control

Reviewed by: John D. Beach Fulfillment

This product is not intended to diagnose, treat, cure, or prevent any disease and has not been evaluated by the FDA.

# CERTIFICATE OF INTERNAL ANALYSIS

TYPE: Phytocannabinoid-Rich Hemp Oil

BATCH No: COTO19-24

Date of Manufacture: 21Jun2019

Date of Analysis: 24Jun2019

### POTENCY RESULTS:

Cannabinoid	Wt. (%)	(mg/g)
CBD	62.65	626.49
CBG	1.16	11.63
CBN	0.21	2.14
THC	1.41	14.10
CBC	2.47	24.70
THC-A	ND**	ND**
CBD-A	0.10	0.97
CBDV	0.89	8.92
CBDV-A	< 0.03	< 0.30
THCV	ND**	ND**
MAX THC	1.41	14.10
MAX CBD	62.73	627.34
TOTAL ACTIVE	68.88	688.84

### Residual Solvents\*:

Propane	Compliant with USP<467>	Pentane	Compliant with USP<467>
Isobutane	Compliant with USP<467>	Isopropanol	Compliant with USP<467>
Butane	Compliant with USP<467>	Hexane	Compliant with USP<467>
Ethanol	Compliant with USP<467>	Acetone	Compliant with USP<467>

### Heavy Metals\*:

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

### TERPENE RESULTS\*:

	Wt. (%)		Wt. (%)
$\beta$ -Bisabolene	1.0-3.0	Camphene	0.1-0.2
$\beta$ -Farnesene	1.0-2.0	E-Farnesene	0.1-0.2
Guaiol	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

### Pesticides\*:

Acequinocyl	ND***	Spinosad	ND***
Pyrethrum	ND***	Spirotetramat	ND***
Spiromesifen	ND***	Bifenazate	ND***
Abamectin	ND***	Fenoxycarb	ND***
Imidacloprid	ND***	Paclobutrazol	ND***

Test ID: 0624195A

\*Batches are sent out regularly for testing, not all batches tested

\*\* ND = Not Detected using a validated high-performance liquid chromatography test method

\*\*\*Pesticides are tested by a third party lab, ND = Not Detected at the Reporting Limit (RL)

### Batch Release:

Chemist: Zosha McKinney

Zosha McKinney 26 Jun 2019

Manager: Ashtley Orosco

Ashtley Orosco 26 Jun 2019

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26 Jun 2019