

## Lab Report

Product: CBD Oil Tincture - 250mg

Lot Number: 0219-11

Type: THC-Free Phytocannabinoid-Rich Hemp Oil



### POTENCY RESULTS:

Cannabinoid	Wt. (%)	(mg/g)
CBD	87.66	876.58
CBG	<0.03	<0.30
CBN	<0.03	<0.30
THC	ND**	ND**
CBC	<0.03	<0.30
THC-A	ND**	ND**
CBD-A	<0.03	<0.30
MAX THC	ND**	ND**
MAX CBD	87.66	876.58
TOTAL ACTIVE	87.66	876.58

### 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***
Pyrethrium	ND***	Spirotetramat	ND***
Spiromesifen	ND***	Bifenazate	ND***
Abamectin	ND***	Fenoxycarb	ND***
Imidacloprid	ND***	Paclobutrazol	ND***

Test ID: 012419APO

\*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)

### 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>

### Batch Release:

Chemist: Zosha McKinney

25 Jan 2019

Manager: Kathryn Sears

25 Jan 2019

# Certificate of Quality Assurance

I. General Information		Lot #	0219-11	
<b>Description:</b>	Thin Hemp oil with orange color/flavor	<b>Spec Rev:</b>	1	
<b>Serving Size:</b>	1 mL	<b>Bulk Item Code:</b>	3020	
<b>Fill Count:</b>	30 mL	<b>Daily Serving (ml):</b>	1 mL	
II. Test Report				
	Attribute	Spec Range	Result	Method
Physical	Appearance	Thin orange oil with orange flavor	Pass	SOP 03.020.01
Heavy Metals	Pb	NMT 10 mcg/day	0.005	ICP-MS
	Arsenic	NMT 15 mcg/day	<0.001	ICP-MS
	Methylmercury as Hg	NMT 2 mcg/day	<0.001	ICP-MS
	Cd	NMT 5 mcg/day	<0.001	ICP-MS
Micro	Total Plate Count	< 1000 cfu/ g	<10	USP <2021>
	Yeast & Mold	<100 cfu/g	<10	USP <2021>
	Total Coliforms	< 100 cfu/g	<10	AOAC 991.14
	E. coli	< 10 cfu/g	<10	AOAC 991.14
	Salmonella	Negative in 25 g	Negative	Modified AOAC 998.09

#### IV. COA Approval

Date:	Prepared By:	Title:
3/11/2019	<i>Robert Bost</i>	Quality Control Manager

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

**INACTIVE INGREDIENTS:** Grape Seed Oil, Orange Oil

Attributes	Acceptance Criteria	Results	Test Method
Appearance	Thin Oil	Conforms	QCU002
Odor	Characteristic	Conforms	QCU002
Color	Light Yellow to Yellow	Conforms	QCU002
Cannabinoid Content	95 - 110% of target concentration, THC - Report results	250 mg total Phytocannabinoids per 1 oz, THC Not Detected	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