



750mg

# Hammer Hemp Oil COA

## I. General Information

<b>Description:</b>	750mg Thin yellow hemp oil with orange odor / flavor	Spec Rev:	01
<b>Serving Size:</b>	1 mL	Bulk Item Code:	7019
<b>Fill Count:</b>	30mL / 1oz	Daily Serving (ml):	1 mL

## II. Test Report

	Attribute	Spec Range	Result	Method
<b>Physical</b>	Appearance	Thin Yellow Oil	Pass	SOP 03.016.0 1
	Taste	Orange Oil	Pass	SOP 03.016.0 1
	Odor	Orange 22.5-	Pass	SOP 03.016.0 1
<b>Assay: Cannabidiol</b>		27.5mg/ml	28mg/ml	HPLC
<b>Total Potential THC</b>		NMT 0.3% Weight	0.0	HPLC
<b>Heavy Metals</b>	Pb (Lead)	NMT 10mcg/day	0.006	ICP-MS
	Hg (Methyl mercury)	NMT 2mcg/day	<0.001	ICP-MS
<b>&amp; Gluten</b>	Cd (Cadmium)	NMT 5mcg/day	0.001	ICP-MS
	As (Inorganic Arsenic)	NMT 15mcg/day	0.201	ICP-MS
	Gluten	<5ppm	ND*	ICP-MS
<b>Micro</b>	Total Plate Count	<100 cfu/g	<10	USP <2021>
	Yeast & Mold	<10 cfu/g	<10	USP <2021>
	Mold	<10 cfu/g	<10	USP <2021>
	Total Coliforms	<10 cfu/g	<10	AOAC 991.14
	E.Coli	Absent in 10g	Absent	USP <2021>
	Salmonella	Negative in 10g	Absent	USP <2022>

## III. COA Approval

	Name	Title	Sign	Date
Prepared By:	Victoria Danner	QC Tech		2/4/2020
Approved By:	Robert Boof	QC Mgr		02-04-20



750mg

**IV. Other Test Results**

**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 / Orange Essence	Conforms	QCU002
Color	Light Yellow to Yellow	Conforms	QCU002
Cannabinoid Content	95-110% of target concentration, THC - Report results	1500mg total Phytocannabinoids per 1oz, 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

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

**Storage:** Room Temperature, Protect from light.

Prepared by: *John Scott* Inspection Control,

Reviewed by: *Jason Miner* Fulfillment,

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



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<b>CHEMICAL:</b>	
<b>Melting Point</b>	60.9°C
<b>Solubility</b>	Insoluble in water, soluble in acetone, ethanol and glycerol @ 25°C
<b>Elemental Impurities</b>	Compliant with USP<233>
<b>Added compounds</b>	NO added compounds
<b>Moisture (Karl Fischer)</b>	0.48%
<b>PHYSICAL:</b>	
<b>Bulk Density</b>	1.0007 g/mL
<b>ORGANOLEPTIC:</b>	
<b>Appearance</b>	Waxy Paste
<b>Color</b>	Amber / Gold
<b>Odor</b>	Herbaceous

<b>Pesticides:</b>					
Abamectin	ND*	Endosulfan II	ND*	Propoxur	ND*
Aldicarb	ND*	Endosulfan sulfate	ND*	Pyrethrum	ND*
Aldicarb sulfone	ND*	Epoxiconazole	ND*	Spinetoram	ND*
Aldicarb sulfoxide	ND*	Ethiofencarb	ND*	Spinosad	ND*
Azoxystrobin	ND*	Etofenprox	ND*	Spirodiclofen	ND*
Bifenazate	ND*	Fenoxycarb	ND*	Spiromesifen	ND*
Bifenthrin	ND*	Fenpropathrin	ND*	Spiromesifen enol	ND*
Carbaryl	ND*	Fenvalerate / Esfenvalerate	ND*	Spirotetramat	ND*
Carbofuran	ND*	Fipronil	ND*	Spiroxamine	ND*
Carbofuran-3- hydroxy	ND*	Fipronil desulfinyl	ND*	Tebuconazole	ND*
Chlorantraniliprole	ND*	Fipronil sulfone	ND*	Thiabendazole	ND*
Chlordane, cis	ND*	Imazalil	ND*	Thiabendazole-5- hydroxy	ND*
Chlorfenapyr	ND*	Imidacloprid	ND*	Thiacloprid	ND*
Chlorpyrifos	ND*	Malathion	ND*	Trifloxystrobin	ND*
Coumaphos	ND*	Methiocarb	ND*	(GC/MS/MS) ND* = Not Detected	
Cyfluthin	ND*	Methiocarb sulfone	ND*		
Cypermethrin	ND*	Methiocarb sulfoxide	ND*		
Cyproconazole	ND*	Methomyl	ND*		
Cyprodinil	ND*	Metolachlor	ND*		
Dichlorvos	ND*	Mevinphos	ND*		
Diclobutrazol	ND*	Myclobutanil	ND*		
Dipropetryn	ND*	Naled	ND*		
Disulfoton	ND*	Paclobutrazol	ND*		
Endosulfan I	ND*	Permethrin	ND*		



### Terpene Results\*:

	Wt (%)		Wt (%)
(-) $\alpha$ -Bisabolol	0.03191	Linalool	0.04588
Camphene	<0.01	$\beta$ -Myrcene	<0.01
(1S)-(+)-3-Carene	<0.01	(E)- $\beta$ -Ocimene	<0.01
$\beta$ -Caryophyllene	0.29471	(Z)- $\beta$ -Ocimene	<0.01
p-Cymere	<0.01	$\alpha$ -Pinene	<0.01
Eucalyptol	<0.01	(-)- $\beta$ -Pinene	<0.01
$\alpha$ -Humulene	0.01996	$\alpha$ -Terpinene	<0.01
(-)-Isopulegol	<0.01	$\gamma$ -Terpinene	<0.01
R-(+)-Limonene	<0.01	Terpinolene	0.01378
Total Terpenes:	0.40624 % Wt.		

(AHP,CA/BCC)

### Residual Solvents\*:

2-Methoxyethanol	ND*
2-Ethoxyethanol	ND*
N,N-Dimethylformamide	ND*
N,N-Dimethylacetamide	ND*
Dimethyl Sulfoxide	ND*
Ethylene Glycol	ND*
N-Methylpyrrolidone	ND*
Formamide	781ppm
Sulfolane	ND*
Ethanol	102ppm
Acetic Acid	ND*
Formic Acid	ND*

(USP&lt;467&gt;,GC)

**Type:** Phytocannabinoid-Rich Hemp Oil / THC Free

**Batch#** CONO19-105-108

**Date of MFG:** 12Sep2019

**Date of Analysis:** 13Sep2019

### Potency Results:

Cannabinoid	Wt % per g	(mg/dropper)
CBD	82.477	27.22mg
CBG	<0.001	<0.01
CBN	<0.001	<0.01
THC	<0.001	<0.01
CBC	<0.001	<0.01
THC-A	<0.001	<0.01
CBD-A	<0.002	<0.02
CBDV	1.923	19.23
THCV	<0.001	<0.01
MAX THC	<0.001	<0.01
MAX CBD	82.477	27.22mg
Total Active	84.4	27.852mg

\*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 third party lab, ND = Not Detected at the Reporting Limit (RL).

### Mycotoxins

Alfatoxin	<10ppb	Deoxynivalenol	<10ppb
Alfatoxin B1	<2ppb	T-2 Toxin	<10ppb
Alfatoxin B2	<2ppb	HT-2 Toxin	<0.1ppm
Alfatoxin G1	<2ppb	Fumonisin B1	<0.1ppm
Alfatoxin G2	<2ppb	Fumonisin B2	<0.1ppm
Alfatoxin M1	<2ppb	Ochratoxin A	<0.1ppm
Alfatoxin M2	<2ppb	Zearalenone	<0.1ppm

(UHPLC MS/MS)

### Batch Release

Chemist: Zosha McKinney

Manager: Robert Haynes

*Zosha McKinney* 23Sep2019  
*Robert Haynes* 23Sep2019

**COPY**  
 23Sep2019