

Lab Report

Product: CBD Oil Tincture - 250mg

Lot Number: 0819-22

Type: THC-Free Phytocannabinoid-Rich Hemp Oil



POTENCY RESULTS:

Cannabinoid	Wt. (%)	(mg/g)
CBD	82.477	824.77
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	824.77
TOTAL ACTIVE	84.400	844.00

(HPLC by Green Scientific, 36753)

TERPENES:

	Wt. (%)		Wt. (%)
(-)- α -Bisabolol	0.03191	Linalool	0.04588
Camphene	<0.01	β -Myrcene	<0.01
[1S]-(+)-3-Carene	<0.01	(E)- β -Ocimene	<0.01
β -Caryophyllene	0.29471	(Z)- β -Ocimene	<0.01
p-Cymene	<0.01	α -Pinene	<0.01
Eucalyptol	<0.01	(-)- β -Pinene	<0.01
α -Humulene	0.01996	α -Terpinene	<0.01
(-)-Isopulegol	<0.01	γ -Terpinene	<0.01
R-(+)-Limonene	<0.01	Terpinolene	0.01378
Total Terpenes:	0.40624 % Wt		

(AHP: C/A/BCC)

HEAVY METALS & GLUTEN:

Cadmium	< 0.001 ppm
Lead	0.009 ppm
Arsenic	0.018 ppm
Mercury	< 0.001 ppm
Gluten	ND* < 5 ppm

(ICP/MS)

MYCOTOXINS:

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

(UHPLC.MS/MS)

MICROBIAL:

Standard plate count	< 10 CFU/g
Total coliforms	< 10 CFU/g
Yeast & mold	< 10 CFU/g
<i>E. coli</i>	Negative/g
<i>Salmonella</i>	Negative/g
<i>Staphylococcus aureus</i>	Negative/g
<i>Pseudomonas aeruginosa</i>	Negative/g
Total Coliforms	< 10 CFU/g

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	781 ppm
Sulfolane	ND*
Ethanol	102 ppm
Acetic Acid	ND*
Formic Acid	ND*

(USP <467>, GC)

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

Pesticides:

Abamectin	ND*	Cypermethrin	ND*	Fipronil	ND*	Propoxur	ND*
Aldicarb	ND*	Cyproconazole	ND*	Fipronil desulfinyl	ND*	Pyrethrum	ND*
Aldicarb sulfone	ND*	Cyprodinil	ND*	Fipronil sulfone	ND*	Spinetoram	ND*
Aldicarb sulfoxide	ND*	Dichlorvos	ND*	Imazalil	ND*	Spinosad	ND*
Azoxystrobin	ND*	Diclobutrazol	ND*	Imidacloprid	ND*	Spirodiclofen	ND*
Bifenazate	ND*	Difopetryn	ND*	Malathion	ND*	Spiromesifen	ND*
Bifenthrin	ND*	Disulfoton	ND*	Methiocarb	ND*	Spiromesifen enol	ND*
Carbaryl	ND*	Endosulfan I	ND*	Methiocarb sulfone	ND*	Spirotetramat	ND*
Carbofuran	ND*	Endosulfan II	ND*	Methiocarb sulfoxide	ND*	Spiroxamine	ND*
Carbofuran-3-hydroxy-	ND*	Endosulfan sulfate	ND*	Methomyl	ND*	Tebuconazole	ND*
Chlorantraniliprole	ND*	Epoxiconazole	ND*	Metolachlor	ND*	Thiabendazole	ND*
Chlordane, cis-	ND*	Ethiofencarb	ND*	Mevinphos	ND*	Thiabendazole-5-hydroxy-	ND*
Chlorfenapyr	ND*	Etofenprox	ND*	Myclobutanil	ND*	Thiacloprid	ND*
Chlorpyrifos	ND*	Fenoxycarb	ND*	Naled	ND*	Trifloxystrobin	ND*
Coumaphos	ND*	Fenpropathrin	ND*	Paclobutrazol	ND*		
Cyfluthrin	ND*	Fenvalerate/Esfenvalerate	ND*	Permethrin	ND*		

(GC/MS/MS)

Certificate of Quality Assurance

Description: Thin yellow hemp oil with orange odor/flavor
Serving Size: 1mL
Fill Count: 30mL

Spec Rev: 01
Bulk Item Code: 7020
Daily Serving (ml): 1mL

Attribute	Spec Range	Result	Method
Appearance	Thin yellow oil	Pass	SOP 03.016.01
Taste	Orange	Pass	SOP 03.016.01
Odor	Orange	Pass	SOP 03.016.01
Assay: Cannabidiol	250 mg/oz	250	Folium CoA
Pb	NMT 10 mcg/day	0.020	ICP-MS
Hg	NMT 2 mcg/day	<0.001	ICP-MS
Cd	NMT 5 mcg/day	<0.001	ICP-MS
As	NMT 15 mcg/day	<0.001	ICP-MS
Total Plate Count	<100 cfu/g	<10	USP <2021>
Yeast	<10 cfu/g	<10	USP <2021>
Mold	<10 cfu/g	<10	USP <2021>
Total Coliforms	<10 cfu/g	<10	AOAC 991.14
E. coli	<10 cfu/g	<10	AOAC 991.14
Salmonella	Absent in 10g	Absent	USP<2022>

Name	Title	Sign	Date
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Prepared By:	Victoria Danner	QC Tech	<i>Victoria Danner</i>	8/5/2019
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Approved By:	Robert Bost	QC Manager	<i>Robert Bost</i>	8/5/2019
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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	750 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