



Lab Report

Product: CBD Hydro Tincture - 250mg
 Lot Number: 1219-14
 Type: THC-Free Phytocannabinoid-Rich Hemp Oil



POTENCY RESULTS:

Cannabinoid	Wt. (%)	(mg/g)
CBD	3.98	39.78
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	3.98	39.78
TOTAL ACTIVE	3.98	39.78

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. (%)
β -Bisabolene	< 0.1	Camphene	< 0.1
β -Farnesene	< 0.1	E-Farnesene	< 0.1
Guaiol	< 0.1	Farnesol	< 0.1
β -Maaliene	< 0.1	α -Bisabolol	< 0.1
Calarene	< 0.1	P-Cymene	< 0.1
β -Caryophyllene	< 0.1	Linalool	< 0.1
α -Humulene	< 0.1	Myrcene	< 0.1
Cadinene	< 0.1	Phytol	< 0.1
α -Gurjunene	< 0.1	Isopulegol	< 0.1
d-Limonene	< 0.1	Terpinene	< 0.1
Nerolidol	< 0.1	Geraniol	< 0.1
α -Pinene	< 0.1	Myrcene	< 0.1
Aristolene	< 0.1	γ -Terpinene	< 0.1
Eucalyptol	< 0.1	δ -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: 0308192M

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

** ND = Not Detected using a validated high-performance liquid chromatography test method, LOD = 0.03%

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

Batch Release:

Chemist: Sophia Alires

Sophia Alires 11 Mar 2019

Manager: Kathryn Sears

KW 11 Mar 2019

SA 11 Mar 2019

Certificate of Quality Assurance

Attribute	Spec Range	Result	Method
Appearance	Thin Amber Oil	Pass	SOP 03.016.01
Taste	Sharp spicy flavor	Pass	SOP 03.016.01
Odor	Characteristic	Pass	SOP 03.016.01
Assay: Hemp Distillate	250 mg/oz	9.5	HPLC
Total Potential THC	NMT 0.3 % Weight	0.0	HPLC
Pb	NMT 10 mcg/day	0.038	ICP-MS
Hg	NMT 2 mcg/day	<0.001	ICP-MS
Cd	NMT 5 mcg/day	0.007	ICP-MS
As	NMT 15 mcg/day	0.062	ICP-MS
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 <2022>
Salmonella	Absent in 10g	Absent	USP <2022>

ACTIVE INGREDIENT: THC-Free Phytocannabinoid-Rich Hemp Oil

INACTIVE INGREDIENTS: quillaja extract, glycerin.

Attributes	Acceptance Criteria	Results	Test Method
Appearance	Translucent Syrup	Conforms	QCU002
Color	Orange (No Flavor)	Conforms	QCU002
Cannabinoid Content	250 mg Phytocannabinoids per 1 oz, (tolerance 95-110% of target) THC Not Detected	250 mg Phytocannabinoids per 1 oz, THC Not Detected	QCU002
Microbial Testing	Total Aerobic Count <2000 CFU/g Total Yeast & Mold <200 CFU/g	Conforms	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

Certificate ID: **79873**

 Received: **3/23/20**

 Client Sample ID: **250mg Hydro**

 Lot Number: **1219-14**

 Matrix: **Water Soluble - Tinctures**

Authorization: Chris Hudalla, Chief Science Officer	Signature: 	Date: 3/27/2020
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The data contained within this report was collected in accordance with the requirements of ISO/IEC 17025:2017. I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

CN: Cannabinoid Profile & Potency [WI-10-17 & WI-10-17-01]

 Analyst: *JFD*

 Test Date: *3/25/2020*

The client sample was analyzed for plant-based cannabinoids by Liquid Chromatography (LC). The collected data was compared to data collected for certified reference standards at known concentrations.

79873-CN

ID	Weight %	Concentration (mg/mL)			
D9-THC	ND	ND			
THCV	ND	ND			
CBD	0.67	8.02			
CBDV	0.01	0.12			
CBG	ND	ND			
CBC	ND	ND			
CBN	ND	ND			
THCA	ND	ND			
CBDA	ND	ND			
CBGA	ND	ND			
D8-THC	ND	ND			
exo-THC	ND	ND			
Total	0.68	8.14	0%	Cannabinoids (wt%)	0.7%
Max THC	ND	ND			
Max CBD	0.67	8.02			

Limit of Quantitation (LOQ) = 0.009 wt%

Max THC (and Max CBD) are calculated values for total cannabinoids after heating, assuming complete decarboxylation of the acid to the neutral form. It is calculated based on the weight loss of the acid group during decarboxylation: $\text{Max THC} = (0.877 \times \text{THCA}) + \text{THC}$. This calculation does not include other cannabinoid isomers (eg. D8-THC and exo-THC). ND = None detected above the limits of detection (LOD), which is half of LOQ.

END OF REPORT

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