


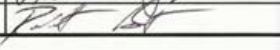
Certificate of Quality Assurance

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

Spec Rev: 01
Bulk Item Code: 7141
Daily Serving (ml): 1 mL

Attribute	Spec Range	Result	Method
Appearance	Thin yellow oil	Pass	SOP 03.016.01
Odor	Orange	Pass	SOP 03.016.01
Assay: Cannabidiol	45-55 mg/mL	56*	HPLC
Total Potential THC	NMT 0.3% Weight	0.0	HPLC
Pb	NMT 10 mcg/day	0.006	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	0.201	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	Absent in 10g	Absent	USP <2022>
Salmonella	Absent in 10g	Absent	USP <2022>

* Customer made aware of OOS result, customer approved result as is.

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

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	1,500 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

Certificate ID: **79870**

 Received: **3/23/20**

 Client Sample ID: **1500mg**

 Lot Number: **1219-17**

 Matrix: **Tincture/Infused Oil - Hemp Seed Oil**

Authorization: Chris Hudalla, Chief Science Officer	Signature: 	Date: 3/28/2020
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The data contained within this report was collected in accordance with the requirements of ISO/IEC17025:2017. 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: *3/26/2020*

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.

79870-CN

ID	Weight %	Concentration (mg/mL)			
D9-THC	ND	ND			
THCV	ND	ND			
CBD	5.03	45.71			
CBDV	0.13	1.14			
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	5.15	46.85	0%	Cannabinoids (wt%)	5.0%
Max THC	ND	ND			
Max CBD	5.03	45.71			

Limit of Quantitation (LOQ) = 0.01 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: Max THC = (0.877 x THCA) + 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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