BIG SKY BOTANICALS

Lab Report

Product: CBD Oil Tincture - 750mg
Lot Number: 0219-13
Type: THC-Free Phytocannabinoid-Rich Hemp Oil

POTENCY RESULTS:

Cannabinoid	Wt. (%)	(mg/g)
CBD	85.93	859.3
CBG	0.05	0.5
CBN	<0.03	<0.3
THC	<0.03	<0.3
CBC	0.05	0.5
THC-A	<0.03	<0.3
CBD-A	0.07	0.7
CBDV	<0.03	<0.3
CBDV-A	<0.03	<0.3
THCV	<0.03	<0.3
MAX THC	<0.03	<0.3
MAX CBD	85.99	859.9
TOTAL ACTIVE	86.09	860.9

Test ID: 093019ZM

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>

Test ID: DA91001018-002 by Kaycha Labs

Heavy Metals:

Cadmium	Compliant with USP<2232>
Lead	Compliant with USP<2232>
Arsenic	Compliant with USP<2232>
Mercury	Compliant with USP<2232>

Test ID: DA91001018-002 by Kaycha Labs

TERPENE RESULTS*:

	Wt. (%)		Wt. (%)
β-Bisabolene	1.0-3.0	Camphene	0.1-0.2
β-Farnesene	1.0-2.0	E-Farnesene	0.1-0.2
Guaiol	0.5-2.0	Farnesol	0.1-0.2
β-Maaliene	0.5-2.0	α-Bisabolol	< 0.1
Calarene	0.5-1.5	P-Cymene	< 0.1
β-Caryophyllene	0.1-1.0	Linalool	< 0.1
α-Humulene	0.1-1.0	Myrcene	< 0.1
Cadinene	0.1-1.0	Phytol	< 0.1
α-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
α-Pinene	0.1-0.5	Myrcene	< 0.1
Aristolene	0.1-0.3	γ-Terpinene	< 0.1
Eucalyptol	0.1-0.2	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: DA91001018-002 by Kaycha Labs

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

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

Batch Release

Chemist: Lena Johnson 07Oct2019

Manager: Christopher Didomenico 07Oct2019

COPY
07Oct2019

Certificate of Quality Assurance

1219-13

Description:	Thin yellow hemp oil with orange odor/flavor	**Spec Rev:**	01
Serving Size:	1mL	**Bulk Item Code:**	7019
Fill Count:	30mL/1oz	**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	22.5-27.5	30.6 *	HPLC
Total Potential THC	NMT 0.3% Weight	0.0	HPLC
Pb	NMT 10 mcg/day	0.004	ICP-MS
Hg	NMT 2 mcg/day	<0.001	ICP-MS
Cd	NMT 5 mcg/day	0.002	ICP-MS
As	NMT 15 mcg/day	0.011	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	Absent	USP <2022>
Salmonella	Absent in 10g	Absent	USP<2022>

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

	Name	Title	Sign	Date
Prepared By:	Victoria Danner	QC Tech	Victoria Danner	1/27/2020
Approved By:	Robert Bost	QC Manager	Robert Bost	1/27/2020

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	Yellow to Yellow Green	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

PROVERDE LABORATORIES

Test Certificate

Certificate ID: **79869** Received: **3/23/20**

Client Sample ID: **750mg**

Lot Number: **1219-13**

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

Authorization:	Signature:	Date:
Chris Hudalla, Chief Science Officer	Christopher Hudalla	3/28/2020

PJLA Testing
Accreditation
80585

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.

79869-CN

ID	Weight %	Concentration (mg/mL)
D9-THC	ND	ND
THCV	ND	ND
CBD	2.54	22.98
CBDV	0.06	0.57
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	2.61	23.55
Max THC	ND	ND
Max CBD	2.54	22.98

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