Certificate of Analysis

PROVERDE LABORATORIES

Certificate ID: **116060** Received: **5/24/23**

Client Sample ID: **CBD Ops Tincture 30ml**

Lot Number: **2001**

Matrix: **Tincture/Infused Oil-MCT Oil**

Scan QR Code for authenticity

Can-Tek Labs LLC.
8107 South I-35 Service Road
Oklahoma City, OK 73149

Authorization:	Signature:	Date:
Andrew Aubin, Lab Director		5/30/2023

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.

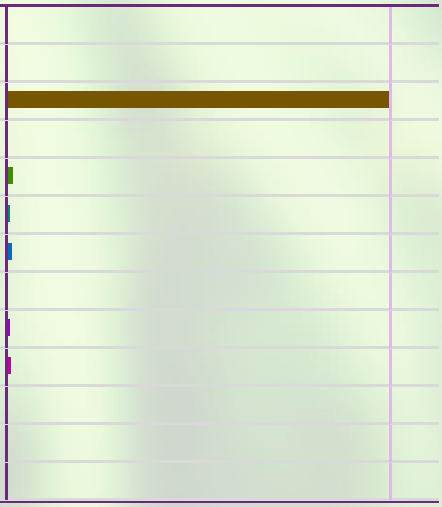
CN: Cannabinoid Profile & Potency [WI-10-17 & WI-10-17-01]

Analyst: PK *Test Date: 5/25/2023*

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.

116060-CN

ID	Weight %	Concentration (mg/mL)
Δ9-THC	ND	ND
THCV	ND	ND
CBD	2.93	26.9
CBDV	0.0135	0.124
CBG	0.0469	0.431
CBC	0.0244	0.224
CBN	0.0388	0.357
THCA	ND	ND
CBDA	0.0269	0.247
CBGA	0.0320	0.294
CBDVA	ND	ND
Δ8-THC	ND	ND
exo-THC	ND	ND
Total	3.11	28.6
Max THC	ND	ND
Max CBD	2.95	27.1



Limit of Quantitation (LOQ) = 0.0114 wt%
Limit of Detection (LOD) = 0.00381 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 one third of Limit of Quantification (LOQ). For values reported as "<LOQ", the estimated value is included in the calculated Total.

EA: Elemental Analysis [WI-10-13]

Analyst: ZDV *Test Date: 5/25/2023*

This sample was analyzed by elemental analysis using Inductively Coupled Plasma Mass Spectrometry (ICP-MS) for the identification of heavy metal constituents. External calibration curves for heavy metals were used for quantitation, with an additional internal reference standard. Resulting data was compared with a sample blank. This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

116060-EA

Symbol	Metal	Conc.[1] (µg/kg)	RL (µg/kg)	Limits[2] (µg/kg)	Status
Al	Aluminum	801	50	-	
As	Arsenic	ND	50	200	PASS
Cd	Cadmium	ND	50	200	PASS
Ca	Calcium	2,440	500	-	
Cr	Chromium	ND	50	300	PASS
Co	Cobalt	ND	50	300	PASS
Cu	Copper	ND	50	3,000	PASS
Fe	Iron	657	50	-	
Pb	Lead	ND	50	500	PASS
Mg	Magnesium	19,100	50	-	
Mn	Manganese	395	50	-	
Hg	Mercury	ND	50	100	PASS
Ni	Nickel	ND	50	500	PASS
P	Phosphorus	108,000	500	-	
K	Potassium	42,100	500	-	
Se	Selenium	ND	50	-	
Ag	Silver	ND	50	700	PASS
S	Sulfur	ND	500	-	
Sn	Tin	ND	500	6,000	PASS
Zn	Zinc	89.0	50	-	

1) ND = None detected to the Limit of Detection (LOD)
2) USP recommended maximum daily limits for inhalational drug product.

MB1: Microbiological Contaminants [WI-10-09] *Analyst: SRD* *Test Date: 5/24/2023*

This sample was analyzed for microbiological contaminants using an automated Most Probable Number (MPN) methodology with cultured enrichments. This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

116060-MB1

Symbol	Analysis	Results	Units	Limits*	Status
AC	Total Aerobic Bacterial Count	<100	CFU/g	100,000 CFU/g	PASS
CC	Total Coliform Bacterial Count	<100	CFU/g	1,000 CFU/g	PASS
EB	Total Bile Tolerant Gram Negative Count	<100	CFU/g	1,000 CFU/g	PASS
YM	Total Yeast & Mold	<100	CFU/g	10,000 CFU/g	PASS

Recommended limits established by the American Herbal Pharmacopoeia (AHP) monograph for Cannabis Inflorescence [2013], for consumable botanical products, including processed and unprocessed cannabis materials, and solvent-based extracts.All recorded Microbiological tests are within the established limits.

MB2: Pathogenic Bacterial Contaminants [WI-10-10] *Analyst: AEH* *Test Date: 5/25/2023*

This sample was analyzed for pathogenic bacteria using an automated Enzyme Linked Fluorescent Assay (ELFA). This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety. Quality control checks are performed monthly by running both a positive and a negative control sample for each pathogen. Reports may not be reproduced except in their entirety.

116060-MB2

Test ID	Analysis	Results	Units	Limits*	Status
116060-ECPT	E. coli (O157)	Negative	NA	Non Detected	PASS
116060-SPT	Salmonella	Negative	NA	Non Detected	PASS

Note: All recorded pathogenic bacteria tests passed.

MY: Mycotoxin Testing [WI-10-05] *Analyst: RAM* *Test Date: 5/24/2023*

This sample was analyzed for mycotoxins using an Immunoaffinity based assay (IA). Data was compared to readings from standard reference materials. This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

116060-MY

Test ID	Date	Results	MDL	Limits	Status*
Total Aflatoxin	5/24/2023	< MDL	2 ppb	< 20 ppb	PASS
Total Ochratoxin	5/24/2023	< MDL	3 ppb	< 20 ppb	PASS

PST: Pesticide Analysis [WI-10-11] *Analyst: CJR* *Test Date: 5/24/2023*

The client sample was analyzed for pesticides using Liquid Chromatography with Mass Spectrometric detection (LC/MS/MS). The method used for sample prep was based on the European method for pesticide analysis (EN 15662).

116060-PST

Analyte	CAS	Result	Units	LLD	Limits (ppb)	Status
Abamectin	71751-41-2	ND	ppb	0.20	300	PASS
Azoxystrobin	131860-33-8	ND	ppb	0.10	40000	PASS
Bifenazate	149877-41-8	ND	ppb	0.10	5000	PASS
Bifenthrin	82657-04-3	ND	ppb	0.20	500	PASS
Cyfluthrin	68359-37-5	ND	ppb	0.50	1000	PASS
Dichlorvos	62-73-7	ND	ppb	3.00	10	PASS
Etoxazole	153233-91-1	ND	ppb	0.10	1500	PASS
Fenoxycarb	72490-01-8	ND	ppb	0.10	10	PASS
Imazalil	35554-44-0	ND	ppb	0.10	10	PASS
Imidacloprid	138261-41-3	ND	ppb	0.10	3000	PASS
Myclobutanil	88671-89-0	ND	ppb	0.10	9000	PASS
Paclobutrazol	76738-62-0	ND	ppb	0.10	10	PASS
Piperonyl butoxide	51-03-6	ND	ppb	0.10	8000	PASS
Pyrethrin	8003-34-7	ND	ppb	0.10	1000	PASS
Spinosad	168316-95-8	ND	ppb	0.10	3000	PASS
Spiromesifen	283594-90-1	ND	ppb	0.10	12000	PASS
Spirotetramat	203313-25-1	ND	ppb	0.10	13000	PASS
Trifloxystrobin	141517-21-7	ND	ppb	0.10	30000	PASS

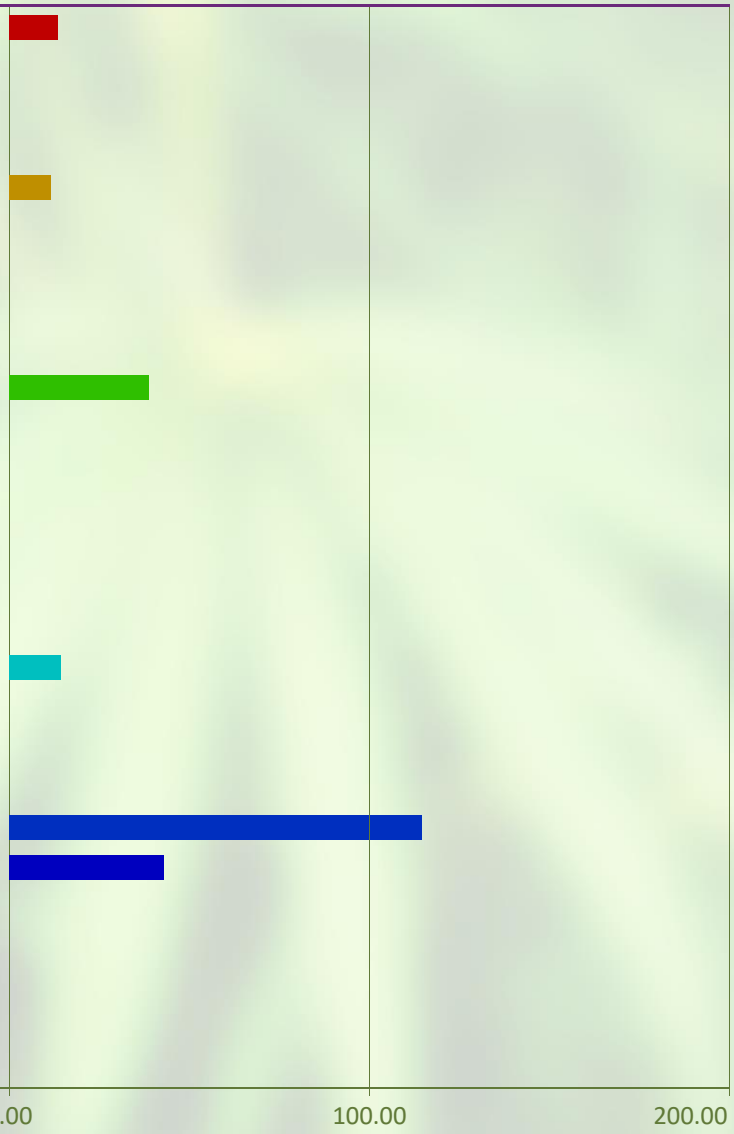
* Testing limits for inhalation established by the State of California: CCR, Title 4, Division 19, Chapter 6, Article 5, Section 15719. ND indicates "none detected" above the lower limit of detection (LLD). Analytes marked with (*) indicate analytes for which no recovery was observed for a pre-spiked matrix sample.

TP: Terpenes Profile [WI-10-37] *Analyst: CS* *Test Date: 5/25/2023*

The sample was analyzed for terpenes (WI-10-37) utilizing solvent extraction followed by Gas Chromatography (GC) utilizing flame ionization detection (FID). Chromatographic data were processed by quantitatively comparing the analytical peak areas against calibration curves prepared from certified reference standards.

116060-TP

Compound	CAS	Conc. (wt%)	Conc. (ppm)
alpha-pinene	80-56-8	0.00135	13.5
camphene	79-92-5	ND	ND
sabinene	3387-41-5	ND	ND
beta-pinene	127-91-3	ND	ND
beta-myrcene	123-35-3	0.00114	11.4
alpha-phellandrene	99-83-2	ND	ND
delta-3-carene	13466-78-9	ND	ND
alpha-terpinene	99-86-5	ND	ND
p-cymene	99-87-6	ND	ND
D-limonene	5989-27-5	0.00388	38.8
eucalyptol	470-82-6	ND	ND
alpha-ocimene	502-99-8	ND	ND
beta-ocimene	13877-91-3	ND	ND
gamma-terpinene	99-85-4	ND	ND
L-fenchone	7787-20-4	ND	ND
terpinolene	586-62-9	ND	ND
linalool	78-70-6	0.00142	14.2
isopulegol	89-79-2	ND	ND
menthol	89-78-1	ND	ND
geraniol	106-24-1	ND	ND
beta-caryophyllene	87-44-5	0.0115	115
alpha-humulene	6753-98-6	0.00428	42.8
cis-nerolidol	3790-78-1	ND	ND
trans-nerolidol	40716-66-3	ND	ND
caryophyllene oxide	1139-30-6	ND	ND
guaiol	489-86-1	ND	ND
alpha-bisabolol	23089-26-1	ND	ND



Total Terpene: <0.1 wt%

* Certified reference standard not available for this compound. Concentration is estimated using the response factor from alpha-pinene. ND = None Detected. RL = Reporting Limit of 5 ppm.

VC: Analysis of Volatile Organic Compounds [WI-10-28] *Analyst: KAS* *Test Date: 5/24/2023*

The client sample was analyzed by Head-Space Gas Chromatography (HS-GC). The collected data was compared to data collected for certified reference standards at known concentrations.

116060-VC

Compound	CAS	Amount [1]	Limit [2]	RL	Status
Propane	74-98-6	ND	1,000 ppm	4	PASS
Isobutane	75-28-5	ND	1,000 ppm	4	PASS
Butane	106-97-8	ND	1,000 ppm	4	PASS
Methanol	67-56-1	ND	3,000 ppm	100	PASS
Pentane	109-66-0	ND	5,000 ppm	100	PASS
Ethanol	64-17-5	ND	5,000 ppm	100	PASS
Acetone	67-64-1	ND	5,000 ppm	100	PASS
Isopropanol	67-63-0	ND	5,000 ppm	100	PASS
Acetonitrile	75-05-8	ND	410 ppm	100	PASS
Hexane	110-54-3	ND	290 ppm	100	PASS
Heptane	142-82-5	ND	5,000 ppm	100	PASS

1) ND = Not detected at a level greater than the Reporting Limit (RL).
2) In ppm, based on USP recommended limits for residual solvents, adopted by the Massachusetts Department of Public Health for cannabis concentrates and extracts on 3/31/16. Butane/Propane limits are based on limits established for state of Colorado.
(*) For ethanol, as many formulations contain flavorings based on ethanol extracts of natural products, no status has been assigned.

END OF REPORT