

Certificate ID: 91649

Received: 1/22/21

Client Sample ID: Original Strength

Lot Number: 10115A

Matrix: Tincture/Infused Oil - MCT Oil



ROSEBUD

CBD

Authorization:

Signature:

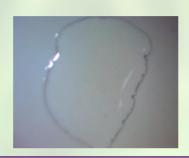
Chris Hudalla, Chief Science Officer

Christophen Hudalla

Date:

2/3/2021







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: 1/26/2021

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.

91649-CN

ID	Weight %	Concentration (mg/ml)			
D9-THC	0.0655	5.85	•		
THCV	ND	ND			
CBD	2.32	207			
CBDV	ND	ND			
CBG	1.25	112			
CBC	0.194	17.3			
CBN	<loq< td=""><td><loq< td=""><td></td><td></td><td></td></loq<></td></loq<>	<loq< td=""><td></td><td></td><td></td></loq<>			
THCA	ND	ND			
CBDA	ND	ND			
CBGA	<loq< td=""><td><loq< td=""><td></td><td></td><td></td></loq<></td></loq<>	<loq< td=""><td></td><td></td><td></td></loq<>			
D8-THC	ND	ND			
exo-THC	ND	ND			
Total	3.85	344	0%	Cannabinoids (wt%)	2.3%
Max THC	0.0655	5.85		Limit of Quantitation (LOQ) =	0.0112 wt%
Max CBD	2.32	207		Limit of Detection (LOD) =	0.0038 wt%

Ratio of Total CBD to THC 35.4:1

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 LOQ.

EA: Elemental Analysis [WI-10-13]

Analyst: CJS

Test Date: 1/29/2021

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.

91649-EA

Symbol	Metal	Conc. $^{1}(\mu g/kg)$	$RL (\mu g/kg)$	Limits ² (µg/kg)	Status
Al	Aluminum	991	50		
As	Arsenic	ND	50	200	PASS
Cd	Cadmium	ND	50	200	PASS
Ca	Calcium	ND	500		
Cr	Chromium	ND	50	300	PASS
Co	Cobalt	ND	50	300	PASS
Cu	Copper	ND	50	3,000	PASS
Fe	Iron	ND	50	-	
Pb	Lead	ND	50	500	PASS
Mg	Magnesium	ND	50	-	
Mn	Manganese	ND	50	-	
Hg	Mercury	ND	50	100	PASS
Mo	Molybdenum	ND	50	1,000	PASS
Ni	Nickel	ND	50	500	PASS
P	Phosphorus	ND	500	-	
K	Potassium	51,500	500	-	
Se	Selenium	ND	50	- 1	
Ag	Silver	ND	50	700	PASS
S	Sulfur	5,560	500	-	
Sn	Tin	ND	500	6,000	PASS
Zn	Zinc	ND	50	-	

¹⁾ ND = None detected to the Method Detection Limit (MDL)

MB1: Microbiological Contaminants [WI-10-09]

Analyst: AEG

Test Date: 1/25/2021

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.

91649-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. Note: All recorded Microbiological tests are within the established limits.

²⁾ USP recommended maximum daily limits for inhalational drug product.

PST: Pesticide Analysis [WI-10-11]

Analyst: CJR

Test Date: 1/29/2021

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).

91649-PST

A	nalyte	CAS	Result	Units	LLD	Limits (ppb)	Status
At	amectin	71751-41-2	ND	ppb	0.20	10	PASS
S_1	pinosad	168316-95-8	ND	ppb	0.10	10	PASS
P	yrethrin	8003-34-7	ND	ppb	0.10	10	PASS
Trifl	oxystrobin	141517-21-7	ND	ppb	0.10	100	PASS
Spir	otetramat	203313-25-1	ND	ppb	0.10	100	PASS
Spir	romesifen	283594-90-1	ND	ppb	0.10	100	PASS
Pipero	nyl butoxide	51-03-6	ND	ppb	0.10	3000	PASS
Pac	lobutrazol	76738-62-0	ND	ppb	0.10	10	PASS
Myo	clobutanil	88671-89-0	ND	ppb	0.10	100	PASS
Imi	dacloprid	138261-41-3	ND	ppb	0.10	5000	PASS
I	mazalil	35554-44-0	ND	ppb	0.10	10	PASS
Fer	noxycarb	72490-01-8	ND	ppb	0.10	10	PASS
Et	oxazole	153233-91-1	ND	ppb	0.10	100	PASS
Di	chlorvos	62-73-7	ND	ppb	3.00	10	PASS
Cy	fluthrin	68359-37-5	ND	ppb	0.50	2000	PASS
Bi	fenthrin	82657-04-3	ND	ppb	0.20	3000	PASS
Bi	fenazate	149877-41-8	ND	ppb	0.10	100	PASS
Azo	xystrobin	131860-33-8	ND	ppb	0.10	100	PASS

^{*} Testing limits established by the Massachusetts Department of Public Health, Protocol for Sampling and Analysis of Finished Medical Marijuana Products and Marijuana-Infused Products for Massachusetts Registered Medical Marijuana Dispensaries, Exhibit 5. 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 due to matrix interference.

TP: Terpenes Profile [WI-10-27]

Analyst: AEG

Test Date: 1/29/2021

Client sample analysis was performed using full evaporative technique (FET) headspace sample delivery and gas chromatographic (GC) compound separation. A combination of flame ionization detection (FID) and/or mass spectrometric (MS) detection with mass spectral confirmation against the National Institute of Standards and Technology (NIST) Mass Spectral Database, Revision 2017 were used. Chromatographic and/or mass spectral data were processed by quantitatively comparing the analytical peak areas against calibration curves prepared from certified reference standards.

91649-TP

Compound	CAS	Conc. (wt%)	Conc. (ppm)	Qualitative Profile
alpha-pinene	80-56-8	ND	ND	
camphene	79-92-5	ND	ND	
sabinene*	3387-41-5	ND	ND	
beta-myrcene	123-35-3	<rl< td=""><td><rl< td=""><td></td></rl<></td></rl<>	<rl< td=""><td></td></rl<>	
beta-pinene	127-91-3	ND	ND	
alpha-phellandrene	99-83-2	ND	ND	
delta-3-carene	13466-78-9	ND	ND	
alpha-terpinene	99-86-5	ND	ND	
alpha-ocimene	502-99-8	ND	ND	
D-limonene	138-86-3	ND	ND	
p-cymene	99-87-6	ND	ND	
cis-beta-ocimene	3338-55-4	ND	ND	
eucalyptol	470-82-6	ND	ND	
gamma-terpinene	99-85-4	ND	ND	
terpinolene	586-62-9	ND	ND	
linalool	78-70-6	ND	ND	
L-fenchone*	7787-20-4	ND	ND	
isopulegol	89-79-2	ND	ND	
menthol*	89-78-1	ND	ND	
geraniol	106-24-1	ND	ND	
beta-caryophyllene	87-44-5	0.0011	10.6	
alpha-humulene	6753-98-6	<rl< td=""><td><rl< td=""><td></td></rl<></td></rl<>	<rl< td=""><td></td></rl<>	
cis-nerolidol	3790-78-1	ND	ND	
trans-nerolidol	40716-66-3	ND	ND	
guaiol	489-86-1	0.0012	11.6	
caryophyllene oxide	1139-30-6	<rl< td=""><td><rl< td=""><td></td></rl<></td></rl<>	<rl< td=""><td></td></rl<>	
alpha-bisabolol	23089-26-1	0.0015	15.3	
T . 1 T . 0.1			ppm 0.	.00 10.00 20.00

Total Terpene: <0.1 wt%

END OF REPORT

^{*} 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.