



Certificate ID: **93117**

Received: **3/15/21**

Scan QR Code for authenticity



*Lily*

Client Sample ID: **Lily Daily Strength Plus**

Lot Number: **3330321**

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

Authorization: Chris Hudalla, Chief Science Officer	Signature: <i>Christopher Hudalla</i>	Date: 4/10/2021
--	--	--------------------



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: AC

Test Date: 3/25/2021

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.

**93117-CN**

ID	Weight %	Concentration (mg/mL)			
D9-THC	0.131	1.22			
THCV	ND	ND			
CBD	3.28	30.6			
CBDV	0.0246	0.230			
CBG	0.0924	0.862			
CBC	0.514	4.80			
CBN	ND	ND			
THCA	ND	ND			
CBDA	ND	ND			
CBGA	ND	ND			
D8-THC	ND	ND			
exo-THC	ND	ND			
Total	4.04	37.7	0%	Cannabinoids (wt%)	3.3%
Max THC	0.131	1.22		Limit of Quantitation (LOQ) = 0.0113 wt%	
Max CBD	3.28	30.6		Limit of Detection (LOD) = 0.0038 wt%	

**Ratio of Total CBD to THC 25.1:1**

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: 4/7/2021

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.

**93117-EA**

Symbol	Metal	Conc. <sup>1</sup> (µg/kg)	RL (µg/kg)	Limits <sup>2</sup> (µg/kg)	Status
Al	Aluminum	483	50	-	
As	Arsenic	ND	50	1,500	PASS
Cd	Cadmium	ND	50	500	PASS
Ca	Calcium	4,870	500	-	
Cr	Chromium	ND	50	1,100,000	PASS
Co	Cobalt	ND	50	5,000	PASS
Cu	Copper	236	50	300,000	PASS
Fe	Iron	338	50	-	
Pb	Lead	ND	50	500	PASS
Mg	Magnesium	1,550	50	-	
Mn	Manganese	ND	50	-	
Hg	Mercury	ND	50	3,000	PASS
Mo	Molybdenum	ND	50	300,000	PASS
Ni	Nickel	ND	50	20,000	PASS
P	Phosphorus	ND	500	-	
K	Potassium	ND	500	-	
Se	Selenium	ND	50	-	
Ag	Silver	ND	50	15,000	PASS
S	Sulfur	1,100	500	-	
Sn	Tin	ND	500	600,000	PASS
Zn	Zinc	501	50	-	

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

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

**MB1: Microbiological Contaminants [WI-10-09]**

Analyst: MM

Test Date: 3/19/2021

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.

**93117-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.

**MB2: Pathogenic Bacterial Contaminants [WI-10-10]**

Analyst: MM

Test Date: 3/20/2021

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.

**93117-MB2**

Test ID	Analysis	Results	Units	Limits*	Status
93117-ECPT	E. coli (O157)	Negative	NA	Non Detected	PASS
93117-SPT	Salmonella	Negative	NA	Non Detected	PASS

Note: All recorded pathogenic bacteria tests passed.

**PST: Pesticide Analysis [WI-10-11]**

Analyst: CJS

Test Date: 3/31/2021

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).

**93117-PST**

Analyte	CAS	Result	Units	LLD	Limits (ppb)	Status
Abamectin	71751-41-2	ND	ppb	0.20	10	PASS
Spinosad	168316-95-8	ND	ppb	0.10	10	PASS
Pyrethrin	8003-34-7	ND	ppb	0.10	10	PASS
Trifloxystrobin	141517-21-7	ND	ppb	0.10	100	PASS
Spirotetramat	203313-25-1	ND	ppb	0.10	100	PASS
Spiromesifen	283594-90-1	ND	ppb	0.10	100	PASS
Piperonyl butoxide	51-03-6	ND	ppb	0.10	3000	PASS
Paclobutrazol	76738-62-0	ND	ppb	0.10	10	PASS
Myclobutanil	88671-89-0	ND	ppb	0.10	100	PASS
Imidacloprid	138261-41-3	ND	ppb	0.10	5000	PASS
Imazalil	35554-44-0	ND	ppb	0.10	10	PASS
Fenoxycarb	72490-01-8	ND	ppb	0.10	10	PASS
Etoxazole	153233-91-1	ND	ppb	0.10	100	PASS
Dichlorvos	62-73-7	ND	ppb	3.00	10	PASS
Cyfluthrin	68359-37-5	ND	ppb	0.50	2000	PASS
Bifenthrin	82657-04-3	ND	ppb	0.20	3000	PASS
Bifenazate	149877-41-8	ND	ppb	0.10	100	PASS
Azoxystrobin	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: LC

Test Date: 3/24/2021

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.

**93117-TP**

Compound	CAS	Conc. (wt%)	Conc. (ppm)	Qualitative Profile	
alpha-pinene	80-56-8	0.0008	7.81	0.0008	7.81
camphene	79-92-5	<RL	<RL	<RL	<RL
sabinene*	3387-41-5	ND	ND	ND	ND
beta-myrcene	123-35-3	0.0197	197	0.0197	197
beta-pinene	127-91-3	0.0006	5.72	0.0006	5.72
alpha-phellandrene	99-83-2	ND	ND	ND	ND
delta-3-carene	13466-78-9	ND	ND	ND	ND
alpha-terpinene	99-86-5	<RL	<RL	<RL	<RL
alpha-ocimene	502-99-8	<RL	<RL	<RL	<RL
D-limonene	138-86-3	0.0073	72.6	0.0073	72.6
p-cymene	99-87-6	ND	ND	ND	ND
cis-beta-ocimene	3338-55-4	0.0032	32.0	0.0032	32.0
eucalyptol	470-82-6	0.0012	12.1	0.0012	12.1
gamma-terpinene	99-85-4	<RL	<RL	<RL	<RL
terpinolene	586-62-9	0.0008	8.35	0.0008	8.35
linalool	78-70-6	0.0011	11.4	0.0011	11.4
L-fenchone*	7787-20-4	ND	ND	ND	ND
isopulegol	89-79-2	ND	ND	ND	ND
menthol*	89-78-1	ND	ND	ND	ND
geraniol	106-24-1	ND	ND	ND	ND
beta-caryophyllene	87-44-5	0.0196	196	0.0196	196
alpha-humulene	6753-98-6	0.0052	51.9	0.0052	51.9
cis-nerolidol	3790-78-1	ND	ND	ND	ND
trans-nerolidol	40716-66-3	ND	ND	ND	ND
guaial	489-86-1	0.0009	9.27	0.0009	9.27
caryophyllene oxide	1139-30-6	ND	ND	ND	ND
alpha-bisabolol	23089-26-1	ND	ND	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: LC

Test Date: 3/23/2021

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.

**93117-VC**

Compound	CAS	Amount <sup>1</sup>	Limit <sup>2</sup>	RL	Status
Propane	74-98-6	ND	1,000 ppm	100	PASS
Isobutane	75-28-5	ND	1,000 ppm	100	PASS
Butane	106-97-8	ND	1,000 ppm	100	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	140 ppm	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**