

Certificate ID: 89522

Received: 11/3/20

Client Sample ID: CF014

Lot Number:

Matrix: Flowers/Bud - Dry Flower

Scan QR Code for authenticity CANNAFLOWER

40 University Way, Unit 40 Brattleboro , VT 05301

Authorization:

Chris Hudalla, Chief Science Officer

Signature:

Christophen Hudalla

Date:

12/14/2020







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: 12/5/2020

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.

#### 89522-CN

ID	Weight %	Concentration (mg/g)	
D9-THC	0.143	1.43	
THCV	ND	ND	
CBD	0.818	8.18	
CBDV	ND	ND	
CBG	0.0302	0.302	
CBC	0.0964	0.964	
CBN	ND	ND	
THCA	0.436	4.36	
CBDA	18.0	180	
CBGA	0.493	4.93	
D8-THC	ND	ND	
exo-THC	ND	ND	
Total	20.0	200	0% Cannabinoids (wt%) 18.0%
Max THC	0.526	5.26	Limit of Quantitation (LOQ) = 0.0067 wt%
Max CBD	16.6	166	Limit of Detection (LOD) = 0.0022 wt%

Ratio of Total CBD to THC 31.6:1

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.

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

Analyst: CJR

Test Date: 11/24/2020

The client sample was anlayzed 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).

89522-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
Dichloryos	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

<sup>\*</sup> 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.

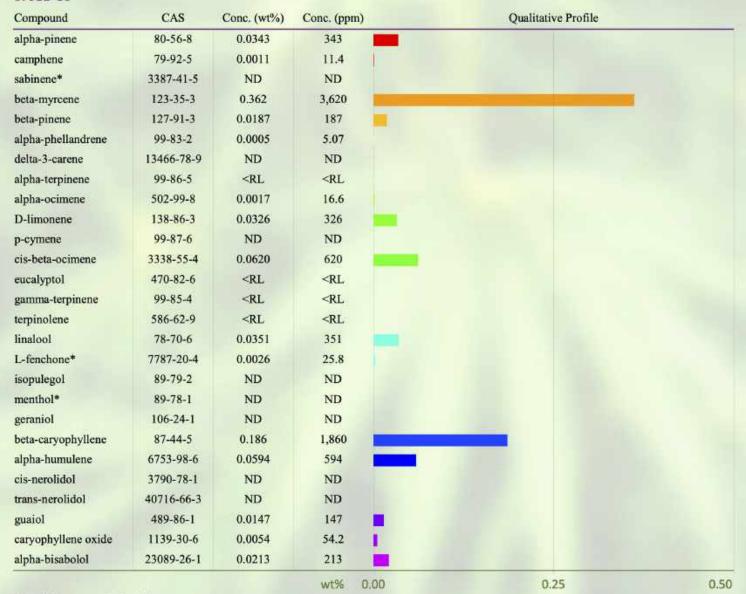
### TP: Terpenes Profile [WI-10-27]

Analyst: AEG

Test Date: 11/23/2020

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.

89522-TP



Total Terpene: 0.8 wt%

#### END OF REPORT

<sup>\*</sup> 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.

MA: Mo	isture A	Inalysis	[WI-10-25]	7
TANZE TAND	ESTRIC Z	CICATANIA	1111-10-23	

Analyst: JA

Test Date: 11/8/2020

89522-MA

Weight loss on drying: 7.8%

The moisture content of the client sample was evaluated based on weight loss observed on heating. The recorded weight loss is due to the loss of water and volatiles (terpenes) observed upon sample drying.

# HM: Heavy Metal Analysis [WI-10-13]

Analyst: CJS

Test Date: 12/6/2020

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.

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			Use Limits 2 (µg/kg)				
Symbol	Metal	Conc. 1 (µg/kg)	RL	All	Ingestion	Status	
As	Arsenic	ND	50.0	200	1,500	PASS	
Cd	Cadmium	ND	50.0	200	500	PASS	
Hg	Mercury	ND	50.0	100	1,500	PASS	
Pb	Lead	70.0	50.0	500	1,000	PASS	

<sup>1)</sup> ND = None detected above the indicated Reporting Limit (RL)

<sup>2)</sup> MA Dept. of Public Health: Protocol for MMJ and MIPS, Exhibit 4(a) for all products.

<sup>3)</sup> USP exposure limits based on daily oral dosing of 1g of concentrate for a 110 lb person.