

Certificate ID: **111389**

Received: **12/2/22**

Scan QR Code for authenticity

**CANNAFLOWER**

Client Sample ID: **Calm**

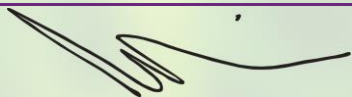
**40 University Way, Unit 40**

Lot Number:

**Brattleboro, VT 05301**

Matrix: **Flowers/Bud-Dry Flower**



Authorization: <b>Andrew Aubin, Lab Director</b>	Signature: 	Date: <b>12/23/2022</b>
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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: **SD**

Test Date: **12/15/2022**

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.

**111389-CN**

ID	Weight %	Concentration (mg/g)		
<b>Δ9-THC</b>	<b>0.0804</b>	<b>0.804</b>		
THCV	ND	ND		
CBD	0.464	4.64		
CBDV	ND	ND		
CBG	0.0527	0.527		
CBC	0.0613	0.613		
CBN	ND	ND		
THCA	0.562	5.62		
CBDA	17.3	173		
CBGA	0.381	3.81		
CBDVA	ND	ND		
<b>Δ8-THC</b>	<b>ND</b>	<b>ND</b>		
<b>exo-THC</b>	<b>ND</b>	<b>ND</b>		
Total	18.9	189	0%	Cannabinoids (wt%) 17.3%
Max THC	0.573	5.73		Limit of Quantitation (LOQ) = 0.0068 wt%
Max CBD	15.6	156		Limit of Detection (LOD) = 0.0023 wt%

**Ratio of Total CBD to THC 27.3:1**

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:  $MAX\ THC = (0.877 \times THCA) + THC$ . 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.

**TP: Terpenes Profile [WI-10-37]**

Analyst: AA

Test Date: 12/15/2022

Client sample analysis was performed using full evaporative technique (FET) headspace sample delivery and gas chromatographic (GC) compound separation or solvent extraction followed by 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.

**111389-TP**

Compound	CAS	Conc. (wt%)	Conc. (ppm)	Qualitative Profile
alpha-pinene	80-56-8	0.156	1,560	
camphene	79-92-5	ND	ND	
sabinene	3387-41-5	ND	ND	
beta-pinene	127-91-3	0.0954	954	
beta-myrcene	123-35-3	0.854	8,540	
alpha-phellandrene	99-83-2	0.0115	115	
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	0.138	1,380	
eucalyptol	470-82-6	ND	ND	
alpha-ocimene	502-99-8	ND	ND	
beta-ocimene	13877-91-3	0.0419	419	
gamma-terpinene	99-85-4	ND	ND	
terpinolene	586-62-9	0.185	1,850	
L-fenchone	7787-20-4	ND	ND	
linalool	78-70-6	0.0333	334	
isopulegol	89-79-2	ND	ND	
menthol	89-78-1	ND	ND	
geraniol	106-24-1	ND	ND	
beta-caryophyllene	87-44-5	0.102	1,020	
alpha-humulene	6753-98-6	0.0754	754	
cis-nerolidol	3790-78-1	ND	ND	
trans-nerolidol	40716-66-3	ND	ND	
caryophyllene oxide	1139-30-6	0.0097	96.5	
guaial	489-86-1	0.112	1,120	
alpha-bisabolol	23089-26-1	0.0437	437	

Total Terpene: 1.9 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.

**END OF REPORT**