



Certificate ID: **115840**

Received: **6/12/23**

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**CANNAFLOWER**

Client Sample ID: **106 pheno**

**40 University Way, Unit 40**

Lot Number: **523**

**Brattleboro, VT 05301**

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



Authorization: <b>Andrew Aubin, Lab Director</b>	Signature: 	Date: <b>6/16/2023</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: **6/13/2023**

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.

**115840-CN**

ID	Weight %	Concentration (mg/g)		
<b>Δ9-THC</b>	<b>0.0539</b>	<b>0.539</b>		
<b>THCV</b>	<b>ND</b>	<b>ND</b>		
<b>CBD</b>	<b>0.408</b>	<b>4.08</b>		
<b>CBDV</b>	<b>ND</b>	<b>ND</b>		
<b>CBG</b>	<b>0.132</b>	<b>1.32</b>		
<b>CBC</b>	<b>0.0331</b>	<b>0.331</b>		
<b>CBN</b>	<b>ND</b>	<b>ND</b>		
<b>THCA</b>	<b>0.445</b>	<b>4.45</b>		
<b>CBDA</b>	<b>13.4</b>	<b>134</b>		
<b>CBGA</b>	<b>0.497</b>	<b>4.97</b>		
<b>CBDVA</b>	<b>0.0378</b>	<b>0.378</b>		
<b>Δ8-THC</b>	<b>ND</b>	<b>ND</b>		
<b>exo-THC</b>	<b>ND</b>	<b>ND</b>		
<b>Total</b>	<b>15.0</b>	<b>150</b>	<b>0%</b>	<b>Cannabinoids (wt%) 13.4%</b>
<b>Max THC</b>	<b>0.444</b>	<b>4.44</b>		<b>Limit of Quantitation (LOQ) = 0.00631 wt%</b>
<b>Max CBD</b>	<b>12.2</b>	<b>122</b>		<b>Limit of Detection (LOD) = 0.00210 wt%</b>

**Ratio of Total CBD to THC 27.4:1**

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

Test Date: 6/12/2023

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.

**115840-TP**

Compound	CAS	Conc. (wt%)	Conc. (ppm)	Qualitative Profile
alpha-pinene	80-56-8	0.0115	115	
camphene	79-92-5	ND	ND	
sabinene	3387-41-5	ND	ND	
beta-pinene	127-91-3	0.0107	107	
beta-myrcene	123-35-3	0.127	1,270	
alpha-phellandrene	99-83-2	0.00389	38.9	
delta-3-carene	13466-78-9	0.00184	18.4	
alpha-terpinene	99-86-5	0.00386	38.6	
p-cymene	99-87-6	ND	ND	
D-limonene	5989-27-5	0.0188	188	
eucalyptol	470-82-6	ND	ND	
alpha-ocimene	502-99-8	ND	ND	
beta-ocimene	13877-91-3	0.0252	252	
gamma-terpinene	99-85-4	ND	ND	
L-fenchone	7787-20-4	ND	ND	
terpinolene	586-62-9	0.0640	640	
linalool	78-70-6	0.0306	306	
isopulegol	89-79-2	ND	ND	
menthol	89-78-1	ND	ND	
geraniol	106-24-1	ND	ND	
beta-caryophyllene	87-44-5	0.0940	940	
alpha-humulene	6753-98-6	0.0646	646	
cis-nerolidol	3790-78-1	ND	ND	
trans-nerolidol	40716-66-3	ND	ND	
caryophyllene oxide	1139-30-6	0.0129	129	
guaial	489-86-1	0.0550	550	
alpha-bisabolol	23089-26-1	0.0379	379	

Total Terpene: 0.6 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**