



Certificate ID: **119859**

Received: **11/16/23**

Scan QR Code for authenticity

**CANNAFLOWER**

Client Sample ID: **Frosted Lime**

**40 University Way, Unit 40**

Lot Number: **0123**

**Brattleboro, VT 05301**

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



Authorization: Andrew Aubin, Lab Director	Signature: 	Date: 12/14/2023
--	--	---------------------



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: *12/13/2023*

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.

**119859-CN**

ID	Weight %	Concentration (mg/g)		
<b>Δ9-THC</b>	<b>0.0754</b>	<b>0.754</b>		
THCV	ND	ND		
CBD	0.565	5.65		
CBDV	ND	ND		
CBG	0.0908	0.908		
CBC	0.0673	0.673		
CBN	ND	ND		
THCA	0.601	6.01		
CBDA	20.8	208		
CBGA	0.652	6.52		
CBDVA	0.128	1.28		
<b>Δ8-THC</b>	<b>ND</b>	<b>ND</b>		
<b>exo-THC</b>	<b>ND</b>	<b>ND</b>		
Total	23.0	230	0%	Cannabinoids (wt%) 20.8%
Total THC	0.602	6.02		Limit of Quantitation (LOQ) = 0.00674 wt%
Total CBD	18.8	188		Limit of Detection (LOD) = 0.00225 wt%

**Ratio of Total CBD to THC 31.2:1**

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: ZDV

Test Date: 12/12/2023

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.

**119859-TP**

Compound	CAS	Conc. (wt%)	Conc. (ppm)	Qualitative Profile
alpha-pinene	80-56-8	0.0313	313	
camphene	79-92-5	ND	ND	
sabinene	3387-41-5	0.00912	91.2	
beta-pinene	127-91-3	0.0326	326	
beta-myrcene	123-35-3	0.155	1,550	
alpha-phellandrene	99-83-2	0.0135	135	
delta-3-carene	13466-78-9	0.00870	87.0	
alpha-terpinene	99-86-5	0.0116	116	
p-cymene	99-87-6	ND	ND	
D-limonene	5989-27-5	0.0593	593	
eucalyptol	470-82-6	0.00783	78.3	
alpha-ocimene	502-99-8	ND	ND	
beta-ocimene	13877-91-3	0.0115	115	
gamma-terpinene	99-85-4	0.0116	116	
L-fenchone	7787-20-4	ND	ND	
terpinolene	586-62-9	0.189	1,890	
linalool	78-70-6	0.0326	327	
isopulegol	89-79-2	0.00872	87.2	
menthol	89-78-1	ND	ND	
geraniol	106-24-1	ND	ND	
beta-caryophyllene	87-44-5	0.454	4,540	
alpha-humulene	6753-98-6	0.299	2,990	
cis-nerolidol	3790-78-1	ND	ND	
trans-nerolidol	40716-66-3	0.0351	351	
caryophyllene oxide	1139-30-6	0.0402	402	
guaial	489-86-1	0.0760	760	
alpha-bisabolol	23089-26-1	0.151	1,510	

Total Terpene: 1.6 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**