



Certificate ID: **119861**

Received: **11/16/23**

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**CANNAFLOWER**

Client Sample ID: **Sour Dog**

**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
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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: *12/13/2023*

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.

**119861-CN**

ID	Weight %	Concentration (mg/g)			
<b>Δ9-THC</b>	<b>0.105</b>	<b>1.05</b>			
THCV	ND	ND			
CBD	0.803	8.03			
CBDV	ND	ND			
CBG	0.0843	0.843			
CBC	0.0792	0.792			
CBN	ND	ND			
THCA	0.634	6.34			
CBDA	18.3	183			
CBGA	0.469	4.69			
CBDVA	0.149	1.49			
<b>Δ8-THC</b>	<b>ND</b>	<b>ND</b>			
<b>exo-THC</b>	<b>ND</b>	<b>ND</b>			
Total	20.6	206	0%	Cannabinoids (wt%)	18.3%
Total THC	0.661	6.61		Limit of Quantitation (LOQ) = 0.00646 wt%	
Total CBD	16.9	169		Limit of Detection (LOD) = 0.00215 wt%	

**Ratio of Total CBD to THC 25.5:1**

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.

**119861-TP**

Compound	CAS	Conc. (wt%)	Conc. (ppm)	Qualitative Profile
alpha-pinene	80-56-8	0.132	1,320	
camphene	79-92-5	ND	ND	
sabinene	3387-41-5	0.00859	85.9	
beta-pinene	127-91-3	0.0659	659	
beta-myrcene	123-35-3	0.288	2,880	
alpha-phellandrene	99-83-2	0.0194	194	
delta-3-carene	13466-78-9	0.0106	106	
alpha-terpinene	99-86-5	0.0151	151	
p-cymene	99-87-6	ND	ND	
D-limonene	5989-27-5	0.0553	553	
eucalyptol	470-82-6	0.00866	86.6	
alpha-ocimene	502-99-8	ND	ND	
beta-ocimene	13877-91-3	0.0165	165	
gamma-terpinene	99-85-4	0.0122	122	
L-fenchone	7787-20-4	ND	ND	
terpinolene	586-62-9	0.269	2,690	
linalool	78-70-6	0.0200	200	
isopulegol	89-79-2	0.0106	106	
menthol	89-78-1	ND	ND	
geraniol	106-24-1	ND	ND	
beta-caryophyllene	87-44-5	0.240	2,400	
alpha-humulene	6753-98-6	0.145	1,450	
cis-nerolidol	3790-78-1	ND	ND	
trans-nerolidol	40716-66-3	0.0337	337	
caryophyllene oxide	1139-30-6	0.0186	186	
guaial	489-86-1	0.133	1,330	
alpha-bisabolol	23089-26-1	0.0775	775	

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**