



Certificate ID: **119863**

Received: **11/16/23**

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CANNAFLOWER

Client Sample ID: **Abacus**

40 University Way, Unit 40

Lot Number: **0123**

Brattleboro, VT 05301

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



Authorization: Andrew Aubin, Lab Director	Signature: 	Date: 11/21/2023
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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: **11/17/2023**

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.

119863-CN

ID	Weight %	Concentration (mg/g)			
Δ9-THC	0.0686	0.686			
THCV	ND	ND			
CBD	0.495	4.95			
CBDV	ND	ND			
CBG	0.0486	0.486			
CBC	0.0448	0.448			
CBN	ND	ND			
THCA	0.462	4.62			
CBDA	14.1	141			
CBGA	0.328	3.28			
CBDVA	0.0583	0.583			
Δ8-THC	ND	ND			
exo-THC	ND	ND			
Total	15.6	156	0%	Cannabinoids (wt%)	14.1%
Total THC	0.474	4.74		Limit of Quantitation (LOQ) = 0.00670 wt%	
Total CBD	12.9	129		Limit of Detection (LOD) = 0.00223 wt%	

Ratio of Total CBD to THC 27.1:1

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: 11/17/2023

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.

119863-TP

Compound	CAS	Conc. (wt%)	Conc. (ppm)	Qualitative Profile
alpha-pinene	80-56-8	0.177	1,770	
camphene	79-92-5	ND	ND	
sabinene	3387-41-5	ND	ND	
beta-pinene	127-91-3	0.103	1,030	
beta-myrcene	123-35-3	0.887	8,870	
alpha-phellandrene	99-83-2	0.0139	139	
delta-3-carene	13466-78-9	0.00807	80.7	
alpha-terpinene	99-86-5	0.0125	125	
p-cymene	99-87-6	ND	ND	
D-limonene	5989-27-5	0.0794	794	
eucalyptol	470-82-6	ND	ND	
beta-ocimene	13877-91-3	0.145	1,450	
gamma-terpinene	99-85-4	ND	ND	
L-fenchone	7787-20-4	ND	ND	
terpinolene	586-62-9	0.201	2,010	
alpha-ocimene	502-99-8	ND	ND	
linalool	78-70-6	0.0432	432	
isopulegol	89-79-2	ND	ND	
menthol	89-78-1	ND	ND	
geraniol	106-24-1	ND	ND	
beta-caryophyllene	87-44-5	0.278	2,780	
alpha-humulene	6753-98-6	0.148	1,480	
cis-nerolidol	3790-78-1	ND	ND	
trans-nerolidol	40716-66-3	0.0441	441	
caryophyllene oxide	1139-30-6	0.0169	169	
guaial	489-86-1	0.0697	697	
alpha-bisabolol	23089-26-1	0.145	1,450	

Total Terpene: 2.4 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