

Certificate ID: **111370**

 Received: **12/2/22**

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CANNAFLOWER
**40 University Way, Unit 40
 Brattleboro, VT 05301**

 Client Sample ID: **Bubba Kush**

Lot Number:

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

Authorization:

Andrew Aubin, Lab Director

Signature:

Date:

1/31/2023



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: *1/27/2023*

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.

111370-CN

ID	Weight %	Concentration (mg/g)		
Δ9-THC	0.0591	0.591		
THCV	ND	ND		
CBD	0.571	5.71		
CBDV	ND	ND		
CBG	ND	ND		
CBC	0.0635	0.635		
CBN	ND	ND		
THCA	0.478	4.78		
CBDA	18.5	185		
CBGA	1.14	11.4		
CBDVA	0.0330	0.330		
Δ8-THC	ND	ND		
exo-THC	ND	ND		
Total	20.8	208	0%	Cannabinoids (wt%) 18.5%
Max THC	0.478	4.78		Limit of Quantitation (LOQ) = 0.0065 wt%
Max CBD	16.8	168		Limit of Detection (LOD) = 0.0022 wt%

Ratio of Total CBD to THC 35.1:1

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: CS

Test Date: 1/26/2023

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.

111370-TP

Compound	CAS	Conc. (wt%)	Conc. (ppm)	Qualitative Profile
alpha-pinene	80-56-8	0.0195	195	
camphene	79-92-5	ND	ND	
sabinene	3387-41-5	ND	ND	
beta-pinene	127-91-3	0.0366	366	
beta-myrcene	123-35-3	0.459	4,590	
alpha-phellandrene	99-83-2	ND	ND	
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	0.257	2,570	
eucalyptol	470-82-6	ND	ND	
alpha-ocimene	502-99-8	ND	ND	
beta-ocimene	13877-91-3	ND	ND	
gamma-terpinene	99-85-4	ND	ND	
terpinolene	586-62-9	0.0099	98.7	
L-fenchone	7787-20-4	ND	ND	
linalool	78-70-6	0.0792	792	
isopulegol	89-79-2	ND	ND	
menthol	89-78-1	ND	ND	
geraniol	106-24-1	ND	ND	
beta-caryophyllene	87-44-5	0.542	5,420	
alpha-humulene	6753-98-6	0.221	2,210	
cis-nerolidol	3790-78-1	ND	ND	
trans-nerolidol	40716-66-3	ND	ND	
caryophyllene oxide	1139-30-6	ND	ND	
guaiol	489-86-1	ND	ND	
alpha-bisabolol	23089-26-1	0.148	1,480	

wt%: 0.00 0.50 1.00

Total Terpene: 1.8 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