

Certificate ID: **91075**

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CANNAFLOWER

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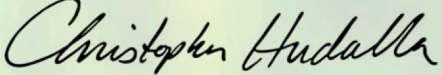
Brattleboro, VT 05301

Attn: Perrin

Client Sample ID: **Bubba Kush**

Lot Number: **122020**

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

Authorization: Chris Hudalla, Chief Science Officer	Signature: 	Date: 1/7/2021
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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: *JFD*

Test Date: *1/1/2021*

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.

91075-CN

ID	Weight %	Concentration (mg/g)			
D9-THC	0.102	1.02			
THCV	ND	ND			
CBD	0.843	8.43			
CBDV	ND	ND			
CBG	0.0418	0.418			
CBC	0.0828	0.828			
CBN	ND	ND			
THCA	0.541	5.41			
CBDA	17.0	170			
CBGA	0.651	6.51			
D8-THC	ND	ND			
exo-THC	ND	ND			
Total	19.2	192	0%	Cannabinoids (wt%)	17.0%
Max THC	0.577	5.77		Limit of Quantitation (LOQ) = 0.0067 wt%	
Max CBD	15.7	157		Limit of Detection (LOD) = 0.0022 wt%	

Ratio of Total CBD to THC 27.2:1

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 x 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 LOQ.

TP: Terpenes Profile [WI-10-27]

Analyst: AEG

Test Date: 12/29/2020

Client sample analysis was performed using full evaporative technique (FET) headspace sample delivery and gas chromatographic (GC) compound separation. A combination of flame ionization detection (FID) and/or mass spectrometric (MS) detection with mass spectral confirmation against the National Institute of Standards and Technology (NIST) Mass Spectral Database, Revision 2017 were used. Chromatographic and/or mass spectral data were processed by quantitatively comparing the analytical peak areas against calibration curves prepared from certified reference standards.

91075-TP

Compound	CAS	Conc. (wt%)	Conc. (ppm)	Qualitative Profile
alpha-pinene	80-56-8	0.0127	127	
camphene	79-92-5	0.0008	8.48	
sabinene*	3387-41-5	0.0047	46.8	
beta-myrcene	123-35-3	0.101	1,010	
beta-pinene	127-91-3	0.0197	197	
alpha-phellandrene	99-83-2	0.0145	145	
delta-3-carene	13466-78-9	0.0061	61.4	
alpha-terpinene	99-86-5	0.0106	106	
alpha-ocimene	502-99-8	0.0015	14.9	
D-limonene	138-86-3	0.0543	543	
p-cymene	99-87-6	0.0015	14.7	
cis-beta-ocimene	3338-55-4	0.0695	695	
eucalyptol	470-82-6	0.0094	93.6	
gamma-terpinene	99-85-4	0.0103	103	
terpinolene	586-62-9	0.273	2,730	
linalool	78-70-6	0.0324	324	
L-fenchone*	7787-20-4	0.0021	20.6	
isopulegol	89-79-2	ND	ND	
menthol*	89-78-1	ND	ND	
geraniol	106-24-1	ND	ND	
beta-caryophyllene	87-44-5	0.402	4,020	
alpha-humulene	6753-98-6	0.152	1,520	
cis-nerolidol	3790-78-1	ND	ND	
trans-nerolidol	40716-66-3	0.0178	178	
guaial	489-86-1	0.0398	398	
caryophyllene oxide	1139-30-6	0.0095	94.5	
alpha-bisabolol	23089-26-1	0.0870	870	

Total Terpene: 1.3 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