

Certificate ID: **91082**

Received: **12/24/20**

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CANNAFLOWER

Client Sample ID: **White CBG**

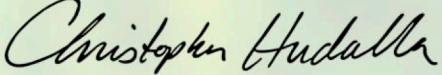
40 University Way, Unit 40

Lot Number: **122020**

Brattleboro, VT 05301

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.

91082-CN

ID	Weight %	Concentration (mg/g)			
D9-THC	0.0536	0.536			
THCV	ND	ND			
CBD	ND	ND			
CBDV	ND	ND			
CBG	0.0902	0.902			
CBC	0.0882	0.882			
CBN	ND	ND			
THCA	0.252	2.52			
CBDA	0.0692	0.692			
CBGA	12.5	125			
D8-THC	ND	ND			
exo-THC	ND	ND			
Total	13.0	130	0%	Cannabinoids (wt%)	12.5%
Max THC	0.274	2.74		Limit of Quantitation (LOQ) = 0.0066 wt%	
Max CBD	0.0607	0.607		Limit of Detection (LOD) = 0.0022 wt%	

Ratio of Total CBD to THC 0.2:1

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.

91082-TP

Compound	CAS	Conc. (wt%)	Conc. (ppm)	Qualitative Profile
alpha-pinene	80-56-8	0.0034	33.7	
camphene	79-92-5	0.0008	8.46	
sabinene*	3387-41-5	ND	ND	
beta-myrcene	123-35-3	0.0279	279	
beta-pinene	127-91-3	0.0034	34.0	
alpha-phellandrene	99-83-2	0.0007	6.69	
delta-3-carene	13466-78-9	<RL	<RL	
alpha-terpinene	99-86-5	0.0005	5.00	
alpha-ocimene	502-99-8	<RL	<RL	
D-limonene	138-86-3	0.0184	184	
p-cymene	99-87-6	<RL	<RL	
cis-beta-ocimene	3338-55-4	0.0027	27.0	
eucalyptol	470-82-6	<RL	<RL	
gamma-terpinene	99-85-4	0.0005	5.28	
terpinolene	586-62-9	0.0012	12.1	
linalool	78-70-6	0.0171	171	
L-fenchone*	7787-20-4	0.0034	33.8	
isopulegol	89-79-2	ND	ND	
menthol*	89-78-1	ND	ND	
geraniol	106-24-1	ND	ND	
beta-caryophyllene	87-44-5	0.180	1,800	
alpha-humulene	6753-98-6	0.0480	480	
cis-nerolidol	3790-78-1	ND	ND	
trans-nerolidol	40716-66-3	ND	ND	
guaial	489-86-1	0.0501	501	
caryophyllene oxide	1139-30-6	0.0060	60.1	
alpha-bisabolol	23089-26-1	0.0310	310	

Total Terpene: 0.4 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