



Certificate ID: **111387**

Received: **12/2/22**

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CANNAFLOWER

Client Sample ID: **Rest**



40 University Way, Unit 40

Lot Number:

Brattleboro, VT 05301

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.

111387-CN

| ID | Weight % | Concentration (mg/g) | | |
|----------------|---------------|----------------------|----|--|
| Δ9-THC | 0.0666 | 0.666 | | |
| THCV | ND | ND | | |
| CBD | 0.464 | 4.63 | | |
| CBDV | ND | ND | | |
| CBG | ND | ND | | |
| CBC | 0.0549 | 0.549 | | |
| CBN | ND | ND | | |
| THCA | 0.475 | 4.75 | | |
| CBDA | 17.5 | 175 | | |
| CBGA | 0.977 | 9.77 | | |
| CBDVA | 0.184 | 1.84 | | |
| Δ8-THC | ND | ND | | |
| exo-THC | ND | ND | | |
| Total | 19.7 | 197 | 0% | Cannabinoids (wt%) 17.5% |
| Max THC | 0.483 | 4.83 | | Limit of Quantitation (LOQ) = 0.0068 wt% |
| Max CBD | 15.8 | 158 | | Limit of Detection (LOD) = 0.0023 wt% |

Ratio of Total CBD to THC 32.7:1

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.

111387-TP

| Compound | CAS | Conc. (wt%) | Conc. (ppm) | Qualitative Profile |
|---------------------|------------|-------------|-------------|---------------------|
| alpha-pinene | 80-56-8 | 0.0460 | 460 | |
| camphene | 79-92-5 | ND | ND | |
| sabinene | 3387-41-5 | ND | ND | |
| beta-pinene | 127-91-3 | 0.0506 | 506 | |
| beta-myrcene | 123-35-3 | 0.381 | 3,810 | |
| alpha-phellandrene | 99-83-2 | 0.0163 | 163 | |
| delta-3-carene | 13466-78-9 | 0.0100 | 101 | |
| alpha-terpinene | 99-86-5 | 0.0157 | 157 | |
| p-cymene | 99-87-6 | ND | ND | |
| D-limonene | 5989-27-5 | 0.113 | 1,130 | |
| eucalyptol | 470-82-6 | ND | ND | |
| alpha-ocimene | 502-99-8 | ND | ND | |
| beta-ocimene | 13877-91-3 | 0.0470 | 470 | |
| gamma-terpinene | 99-85-4 | 0.0112 | 112 | |
| terpinolene | 586-62-9 | 0.254 | 2,540 | |
| L-fenchone | 7787-20-4 | ND | ND | |
| linalool | 78-70-6 | 0.0371 | 371 | |
| isopulegol | 89-79-2 | ND | ND | |
| menthol | 89-78-1 | ND | ND | |
| geraniol | 106-24-1 | ND | ND | |
| beta-caryophyllene | 87-44-5 | 0.269 | 2,690 | |
| alpha-humulene | 6753-98-6 | 0.155 | 1,550 | |
| cis-nerolidol | 3790-78-1 | ND | ND | |
| trans-nerolidol | 40716-66-3 | ND | ND | |
| caryophyllene oxide | 1139-30-6 | ND | ND | |
| guaial | 489-86-1 | 0.210 | 2,100 | |
| alpha-bisabolol | 23089-26-1 | 0.108 | 1,080 | |

Total Terpene: 1.7 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