



Certificate ID: **38583**

Received: **8/28/18**

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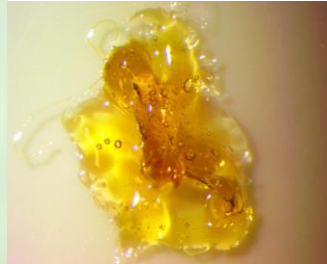
Attn: Lisa Dulac

Client Sample ID: **High CBD3**

Lot Number:

Matrix: **Concentrates/Extracts - Alcohol**

Authorization: Chris Hudalla, Chief Science Officer	Signature: 	Date: 9/6/2018
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The data contained within this report was collected in accordance with the requirements of ISO/IEC17025:2005. 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-10-04]

Analyst: *MG*

Test Date: 9/6/2018

The client sample was analyzed for plant-based cannabinoids by Convergence Chromatography (CC). The collected data was compared to data collected for certified reference standards at known concentrations.

38583-CN

ID	Weight %	Conc.	
D9-THC	1.18 wt %	11.81 mg/g	
THCV	ND	ND	
CBD	6.97 wt %	69.65 mg/g	
CBDV	ND	ND	
CBG	0.63 wt %	6.28 mg/g	
CBC	0.57 wt %	5.68 mg/g	
CBN	0.03 wt %	0.33 mg/g	
THCA	2.64 wt %	26.43 mg/g	
CBDA	64.99 wt %	649.89 mg/g	
CBGA	1.52 wt %	15.15 mg/g	
Total	78.52 wt%	785.22 mg/g	0% Cannabinoids (wt%) 65.0%
Max THC	3.50 wt%	34.99 mg/g	
Max CBD	63.96 wt%	639.60 mg/g	

Ratio of Total CBD to THC 18.3:1

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. ND = None detected above the limits of detection (LLD)

The client sample was analyzed by Head-Space Gas Chromatography (HS-GC). The collected data was compared to data collected for certified reference standards at known concentrations.

38583-VC

Compound	CAS	Amount ¹	Limit ²	Status
Propane	74-98-6	15 ppm	N/A	-
Isobutane	75-28-5	43 ppm	5,000 ppm	PASS
Butane	106-97-8	784 ppm	5,000 ppm	PASS
Methanol	67-56-1	35 ppm	3,000 ppm	PASS
2-Methylbutane	78-78-4	752 ppm	5,000 ppm	PASS
Ethanol	64-17-5	248 ppm	5,000 ppm	PASS
Acetone	67-64-1	226 ppm	5,000 ppm	PASS
Isopropanol	67-63-0	29 ppm	5,000 ppm	PASS
Hexane	110-54-3	8 ppm	290 ppm	PASS
Heptane	142-82-5	9 ppm	5,000 ppm	PASS
Toluene	108-88-3	20 ppm	890 ppm	PASS

1) ND = None detected above 5 ppm.

2) In ppm, based on USP recommended limits for residual solvents, adopted by the Massachusetts Department of Public Health on 3/31/16. Butane/Propane limits are based on limits established for state of Colorado.

END OF REPORT