

Certificate ID: **81887** Received: **5/28/20**

Client Sample ID: 5% CBD Oil 50mg/ml

Lot Number: 02-2020

Matrix: Concentrates/Extracts - Hemp Oil





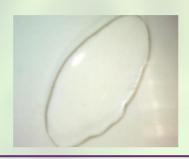
Authorization:
Chris Hudalla, Chief Science Officer

Signature:

Christophy Hudalla

6/5/2020







80585

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: 6/5/2020

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.

81887-CN

01007 011				
ID	Weight %	Concentration (mg/mL)		
D9-THC	ND	ND		
THCV	ND	ND		
CBD	5.28	48.80		
CBDV	0.03	0.29		
CBG	ND	ND		
CBC	ND	ND		
CBN	ND	ND		
THCA	ND	ND		
CBDA	< 0.01	<loq< td=""><td></td><td></td></loq<>		
CBGA	ND	ND		
D8-THC	ND	ND		
exo-THC	ND	ND		
Total	5.32	49.20	0% Cannabinoids (wt%)	5.3%
Max THC	ND	ND		
Max CBD	5.29	48.90		

Limit of Quantitation (LOQ) = 0.01 wt%

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 half of LOQ.

HM: Heavy Metal Analysis [WI-10-13]

Analyst: CJS

Test Date: 6/5/2020

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8188/-HM				Use Limits ² (µg/kg)		
Symbol	Metal	Conc. 1 (µg/kg)	RL	All	Ingestion	Status
As	Arsenic	ND	50	200	1500	PASS
Cd	Cadmium	ND	50	200	500	PASS
Hg	Mercury	ND	50	100	1500	PASS
Pb	Lead	ND	50	500	1000	PASS

¹⁾ ND = None detected to Lowest Limits of Detection (LLD)

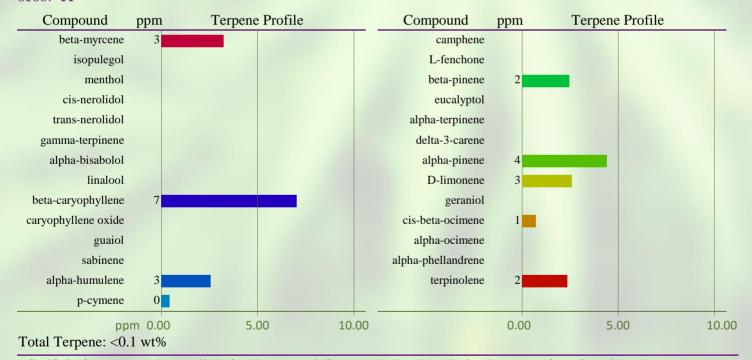
TP: Terpenes Profile [WI-10-27]

Analyst: CA

Test Date: 5/29/2020

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.

81887-TP



^{*} Certified reference standard not available for this compound. Concentration is estimated using the response factor from alpha-pinene.

END OF REPORT

²⁾ MA Dept. of Public Health: Protocol for MMJ and MIPS, Exhibit 4(a) for all products.

³⁾USP exposure limits based on daily oral dosing of 1g of concentrate for a 110 lb person.