



Certificate ID: **45872 (Reissued)** Received: **1/11/19**
 Client Sample ID: **Calm Advanced+ Hemp Oil**
 Lot Number: **I18**
 Matrix: **Tincture - Hemp Oil**

Scan QR Code for authenticity



Authorization: Jon Podgorni, Lab Manager	Signature: <i>Jon Podgorni</i>	Date: 1/31/2019
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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-10-17 & WI-10-17-01] Analyst: *LG* Test Date: *1/24/2019*

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.

45872-CN

ID	Weight %	Conc.		
D9-THC	0.16 wt %	1.49 mg/mL		
THCV	ND	ND		
CBD	4.71 wt %	43.68 mg/mL		
CBDV	0.05 wt %	0.42 mg/mL		
CBG	0.08 wt %	0.78 mg/mL		
CBC	0.16 wt %	1.45 mg/mL		
CBN	0.02 wt %	0.18 mg/mL		
THCA	ND	ND		
CBDA	ND	ND		
CBGA	ND	ND		
Total	5.18 wt%	47.99 mg/mL	0%	Cannabinoids (wt%) 4.7%
Max THC	0.16 wt%	1.49 mg/mL		
Max CBD	4.71 wt%	43.68 mg/mL		

Ratio of Total CBD to THC 29.4:1

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 (LLD)

This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

45872-HM

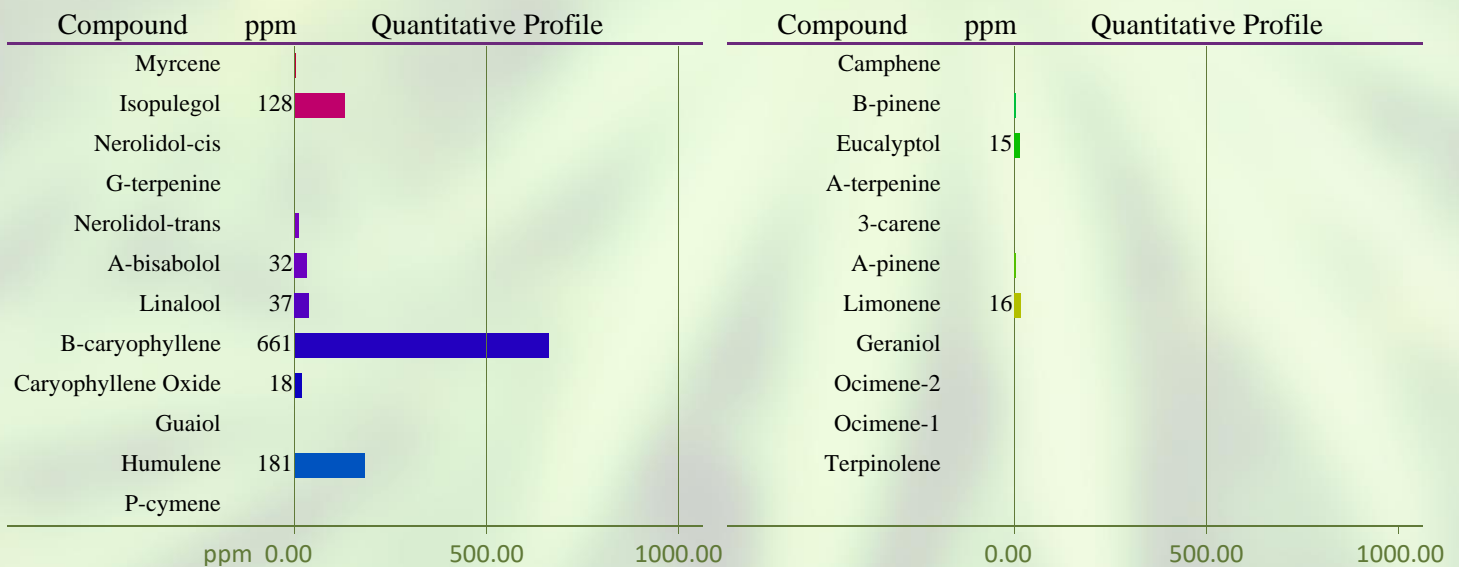
Symbol	Metal	Conc. ¹	Units	MDL	Use Limits ²		Units	Status
					All	Ingestion		
As	Arsenic	ND	µg/kg	4	200	1500	µg/kg	PASS
Cd	Cadmium	1	µg/kg	1	200	500	µg/kg	PASS
Hg	Mercury	ND	µg/kg	2	100	1500	µg/kg	PASS
Pb	Lead	14	µg/kg	2	500	1000	µg/kg	PASS

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

TP: Terpenes Profile [WI-10-08]

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.

45872-TP



Total Terpene: 0.1 wt%

* Indicates semi-qualitative calculation based on recorded peak areas.

END OF REPORT