Certificate ID: 69735 Received: 11/1/19

Client Sample ID: 1000mg/30ml - with turmeric

Lot Number: 1408309

Matrix: Tincture/Infused Oil - Hemp Seed Oil





Authorization: Signature: CA 1 Date:

Elizabeth R. Wagoner, Lab Director

Epulgu

11/14/2019







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: JSG

Test Date: 11/11/2019

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.

69735-CN

07700 011					
ID	Weight %	Teight % Concentration (mg/mL)			
D9-THC	0.14	1.35	•		
THCV	ND	ND			
CBD	3.55	33.36			
CBDV	ND	ND			
CBG	0.08	0.79			
CBC	0.11	1.04			
CBN	ND	ND			
THCA	ND	ND			
CBDA	ND	ND			
CBGA	ND	ND			
D8-THC	ND	ND			
exo-THC	ND	ND			
Total	3.89	36.53	0%	Cannabinoids (wt%)	3.5%
Max THC	0.14	1.35			
Max CBD	3.55	33.36			

Ratio of Total CBD to THC 24.8:1

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: 11/12/2019

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.

69735-HM				Use Lim	its 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)

MB1: Microbiological Contaminants [WI-10-09]

Analyst: MM

Test Date: 11/4/2019

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.

69735-MB1

Symbol	Analysis	Results	Units	Limits*	Status
AC	Total Aerobic Bacterial Count	<100	CFU/g	100,000 CFU/g	PASS
CC	Total Coliform Bacterial Count	<100	CFU/g	1,000 CFU/g	PASS
EB	EB Total Bile Tolerant Gram Negative Count		CFU/g	1,000 CFU/g	PASS
YM	Total Yeast & Mold	<100	CFU/g	10,000 CFU/g	PASS

Note: All recorded Microbiological tests are within the established limits.

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.

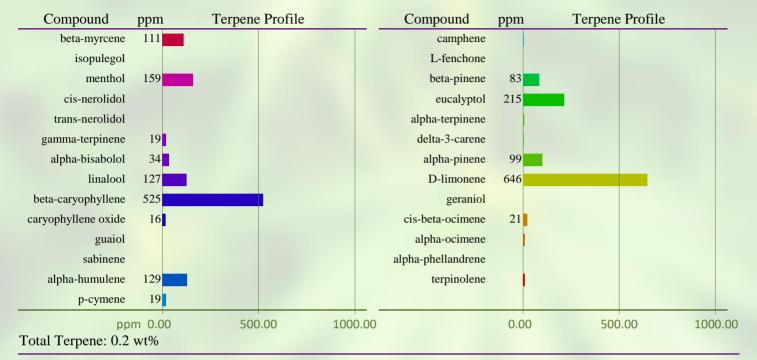
TP: Terpenes Profile [WI-10-27]

Analyst: JR

Test Date: 11/9/2019

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. All values are semiquantitative estimates based on recorded peak areas relative to terpene calibration data.

69735-TP



VC: Analysis of Volatile Organic Compounds [WI-10-28]

Analyst: JR

Test Date: 11/5/2019

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.

69735-VC

Compound	CAS	Amount 1	Limit ²	RL	Status
Propane	74-98-6	ND	1,000 ppm	100	PASS
Isobutane	75-28-5	ND	1,000 ppm	100	PASS
Butane	106-97-8	ND	1,000 ppm	100	PASS
Methanol	67-56-1	ND	3,000 ppm	100	PASS
Pentane	109-66-0	ND	5,000 ppm	100	PASS
Ethanol	64-17-5	ND	5,000 ppm	100	*
Acetone	67-64-1	ND	5,000 ppm	100	PASS
Isopropanol	67-63-0	ND	5,000 ppm	100	PASS
Acetonitrile	75-05-8	ND	410 ppm	100	PASS
Hexane	110-54-3	ND	290 ppm	100	PASS
Heptane	142-82-5	ND	5,000 ppm	100	PASS
1-Butanol	71-36-3	160 ppm	5,000 ppm	100	PASS

¹⁾ ND = Not detected at a level greater than the Reporting Limit (RL).

END OF REPORT

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

^(*) For ethanol, as many formulations contain flavorings based on ethanol extracts of natural products, no status has been assigned.