

Certificate ID: 48692

Received: 2/19/19

Client Sample ID: MCT_25_FS_021319

Lot Number: 19021201

Matrix: Capsules/Tablets - Capsule

Scan QR Code for authenticity





Authorization:

Jon Podgorni, Lab Manager

Signature:

Jon Podgorni

Date:

3/6/2019







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: 2/26/2019

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.

48692-CN

ID	Weight %	Conc.			
D9-THC	0.10 wt %	0.48 mg/cap			
THCV	ND	ND			
CBD	5.18 wt %	24.13 mg/cap			
CBDV	0.03 wt %	0.14 mg/cap			
CBG	0.02 wt %	0.12 mg/cap			
CBC	0.09 wt %	0.40 mg/cap			
CBN	ND	ND			
THCA	ND	ND			Wall
CBDA	0.04 wt %	0.18 mg/cap			
CBGA	ND	ND			
D8-THC	0.02 wt %	0.11 mg/cap			
exo-THC	ND	ND			
Total	5.49 wt%	25.56 mg/cap	0%	Cannabinoids (wt%)	5.2%
Max THC	0.10 wt%	0.48 mg/cap			
Max CBD	5.22 wt%	24.29 mg/cap			

Ratio of Total CBD to THC 50.3:1

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. This calculation does not include other cannabinoid isomers (eg. D8-THC and exo-THC). ND = None detected above the limits of detection (LLD)

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

Analyst: JFD

Test Date: 2/27/2019

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.

48692-HM			Use Limits ²					
Symbol	Metal	Conc. ¹	Units	MDL	All	Ingestion	Units	Status
As	Arsenic	ND	μg/kg	4	200	1500	μg/kg	PASS
Cd	Cadmium	ND	μg/kg	1	200	500	μg/kg	PASS
Hg	Mercury	ND	μg/kg	2	100	1500	μg/kg	PASS
Pb	Lead	ND	μg/kg	2	500	1000	μg/kg	PASS

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

MB1: Microbiological Contaminants [WI-10-09]

Analyst: MM

Test Date: 2/22/2019

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.

48692-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	Total Bile Tolerant Gram Negative Count	<100	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.

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.

48692-VC

Compound	CAS	Amount ¹	Limit ²	RL	Status
Propane	74-98-6	ND	1,000 ppm	2	PASS
Isobutane	75-28-5	ND	1,000 ppm	2	PASS
Butane	106-97-8	ND	1,000 ppm	2	PASS
Methanol	67-56-1	ND	3,000 ppm	20	PASS
Ethanol	64-17-5	ND	5,000 ppm	20	PASS
Acetone	67-64-1	423 ppm	1,000 ppm	20	PASS
Isopropanol	67-63-0	ND	5,000 ppm	20	PASS
Acetonitrile	75-05-8	ND	410 ppm	20	PASS
Hexane	110-54-3	ND	290 ppm	20	PASS
Heptane	142-82-5	ND	5,000 ppm	20	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 on 3/31/16. Butane/Propane limits are based on limits established for state of Colorado.