

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.

36104-CN

ID	Weight %	Conc.			
Δ9-THC	2.94 wt %	29.43 mg/g			
THCV	ND	ND			
CBD	60.85 wt %	608.47 mg/g			
CBDV	0.58 wt %	5.83 mg/g			
CBG	1.19 wt %	11.92 mg/g			
CBC	2.14 wt %	21.36 mg/g	•		
CBN	ND	ND			
THCA	ND	ND			
CBDA	ND	ND			
CBGA	ND	ND			
Total	67.70 wt%	677.00 mg/g	0%	Cannabinoids (wt%)	60.8%
Max THC	2.94 wt%	29.43 mg/g			
Max CBD	60.85 wt%	608.47 mg/g			

Ratio of Total CBD to THC 20.7:1

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: $Max THC = (0.877 \times THCA) + THC$. ND = None detected above the limits of detection (LLD)

EA: Elemental Analysis [WI-10-13] Analysis [WI-10-13] Analysis [WI-10-13]

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.

36104-EA

Symbol	Metal	Conc. ¹	MDL	Limits ²	Status
Al	Aluminum	495 ug/kg	5 ug/kg	-	
As	Arsenic	6 ug/kg	4 ug/kg	150 ug/kg	PASS
Cd	Cadmium	ND	1 ug/kg	150 ug/kg	PASS
Ca	Calcium	567 ug/kg	500 ug/kg	-	
Cr	Chromium	32 ug/kg	5 ug/kg	2500 ug/kg	PASS
Со	Cobalt	ND	10 ug/kg	-	
Cu	Copper	ND	500 ug/kg	10000 ug/kg	PASS
Fe	Iron	701 ug/kg	5 ug/kg	-	
Pb	Lead	28 ug/kg	2 ug/kg	500 ug/kg	PASS
Mg	Magnesium	ND	500 ug/kg	-	
Mn	Manganese	ND	500 ug/kg	-	
Hg	Mercury	ND	2 ug/kg	150 ug/kg	PASS
Mo	Molybdenum	ND	5000 ug/kg	1000 ug/kg	PASS
Ni	Nickel	ND	500 ug/kg	150 ug/kg	PASS
Р	Phosphorus	ND	500 ug/kg	-	
K	Potassium	13,042 ug/kg	5 ug/kg	-	
Se	Selenium	15 ug/kg	10 ug/kg	-	
Ag	Silver	ND	10 ug/kg	-	
S	Sulfur	3,757 ug/kg	5 ug/kg	-	
Sn	Tin	ND	5000 ug/kg	-	
Zn	Zinc	5,045 ug/kg	5 ug/kg	-	

1) ND = None detected to the Method Detection Limit (MDL)

2) USP recommended maximum daily limits for inhalational drug product.

MB1: Microbiological Contaminants [WI-10-09]Analyst: MSTest Date: 7/23/20

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36104-MB1

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

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

Certificate ID: 36104 (Prelim)

MB2: Pathogenic Bacterial Contaminants [WI-10-10]Analyst: mattTest Date: 7/24/201						
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36104-MB2						
Test ID	Analysis	Results	Units	Limits*	Status	
36104-ECPT	E. coli (O157)	Negative	NA	Non Detected	PASS	
36104-SPT	Salmonella	Negative	NA	Non Detected	PASS	

Note: All recorded pathogenic bacteria tests passed.

TP: Terpenes Profile [WI-10-08]Analyst: CJHTest Date: 7/28/2018

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.

36104-TP

Compound	wt%	Quantitative Profile	;	Compound	wt%	Quantitative P	rofile
Myrcene	0.008			Terpineol			
Pulegone				Camphene			
Isopulegol	0.006			Fenchone			
Borneol*	0.009			B-pinene			
Menthol				Eucalyptol	0.029		
Nerolidol-cis				A-terpenine			
G-terpenine	0.005			3-carene			
Nerolidol-trans	0.012			A-pinene	0.004		
A-bisabolol	0.034			Citral-1			
Linalool	0.004			Citral-2			
Linalyl Acetate*				Limonene	0.018		
B-caryophyllene	0.133			Citronellol			
Caryophyllene Oxide	0.013			Geraniol			
Eugenol				Ocimene-2			
Guaiol	0.024			Ocimene-1			
Sabinene				A-phellandrene			
Humulene	0.051			Terpinolene	0.002		
P-cymene							
W Total Terpene: 0.4	t% 0.00 wt%	0.10	0.20		0.00	0.10	0.20

* Indicates qualitative calculation based on recorded peak areas.

VC. Analysis of volulie Organic Compounds [WI-10-07] Analysis. C511 Test Date. 7/29/2010	VC: Analysis of Volatile Organic Compounds [WI-10-07]	Analyst: CJH	Test Date: 7/29/2018
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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.

36104-VC

Compound	CAS	Amount ¹	Limit ²	Status
Propane	74-98-6	18 ppm	N/A	-
Isobutane	75-28-5	ND	5,000 ppm	PASS
Butane	106-97-8	ND	5,000 ppm	PASS
Methanol	67-56-1	21 ppm	3,000 ppm	PASS
Pentane	109-66-0	ND	5,000 ppm	PASS
Ethanol	64-17-5	152 ppm	5,000 ppm	PASS
Ethyl Ether	60-29-7	ND	5,000 ppm	PASS
2,2-Dimethylbutan	e 75-83-2	10 ppm	N/A	-
Acetone	67-64-1	338 ppm	5,000 ppm	PASS
Isopropanol	67-63-0	9 ppm	5,000 ppm	PASS
Acetonitrile	75-05-8	ND	410 ppm	PASS
Hexane	110-54-3	78 ppm	290 ppm	PASS
1-Propanol	71-23-8	5 ppm	5,000 ppm	PASS
Ethyl Acetate	141-78-6	19 ppm	5,000 ppm	PASS
Heptane	142-82-5	ND	5,000 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