

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.

30929-CN

ID	Weight %	Conc.			
∆9- THC	ND	ND			
THCV	ND	ND			
CBD	99.09 wt %	990.90 mg/g			
CBDV	0.39 wt %	3.90 mg/g			
CBG	ND	ND			
CBC	ND	ND			
CBN	ND	ND			
THCA	ND	ND			
CBDA	ND	ND			
CBGA	ND	ND			
Total	99.48 wt%	994.80 mg/g	0%	Cannabinoids (wt%)	99.1%
Max THC	-	-			
Max CBD	99.09 wt%	990.90 mg/g			

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] Analyst: JFD Test Date: 6/25/201
--

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.

30929-ЕА

Symbol	Metal	Conc. ¹	MDL	Limits ²	Status
Al	Aluminum	1,802 ug/kg	5 ug/kg	-	
As	Arsenic	ND	4 ug/kg	15000 ug/kg	PASS
Cd	Cadmium	ND	1 ug/kg	5000 ug/kg	PASS
Ca	Calcium	ND	500 ug/kg	-	
Cr	Chromium	24 ug/kg	5 ug/kg	45000 ug/kg	PASS
Co	Cobalt	ND	10 ug/kg	-	
Cu	Copper	ND	500 ug/kg	3100000 ug/kg	PASS
Fe	Iron	171 ug/kg	5 ug/kg	-	
Pb	Lead	21 ug/kg	2 ug/kg	400000 ug/kg	PASS
Mg	Magnesium	532 ug/kg	500 ug/kg	-	
Mn	Manganese	ND	500 ug/kg	-	
Hg	Mercury	ND	2 ug/kg	9400 ug/kg	PASS
Mo	Molybdenum	ND	5000 ug/kg	-	
Ni	Nickel	ND	500 ug/kg	1500000 ug/kg	PASS
Р	Phosphorus	10,196 ug/kg	500 ug/kg	-	
K	Potassium	ND	5 ug/kg	-	
Se	Selenium	ND	10 ug/kg		
Ag	Silver	ND	10 ug/kg	-	
S	Sulfur	2,297 ug/kg	5 ug/kg	-	
Sn	Tin	ND	5000 ug/kg	-	
Zn	Zinc	ND	5 ug/kg	15000 ug/kg	PASS

MB1: Microbiological Contaminants [WI-10-09]

Test Date: 6/26/2018

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.

Analyst: MS

30929-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.

MY: Mycotoxin Testing [WI-10-05]	Analyst: AR	Test Date: 6/27/2018
----------------------------------	-------------	----------------------

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.

30929-MY

Test ID	Date	Results	MDL	Limits	Status*
Total Aflatoxin	6/27/2018	< MDL	3 ppb	< 20 ppb	PASS
Total Ochratoxin	6/27/2018	2.4	2 ppb	< 20 ppb	PASS

Analyst: KSB

PST: Pesticide Analysis [WI-10-11]

Test Date: 6/28/2018

The client sample was anlayzed for pesticides using Liquid Chromatography with Mass Spectrometric detection (LC/MS/MS). The method used for sample prep was based on the European method for pesticide analysis (EN 15662).

30929-PST

Analyte	CAS	Result	Units	LLD	Limits (ppb)	Status
Abamectin	71751-41-2	ND	ppb	0.20	300	PASS
Azoxystrobin	131860-33-8	ND	ppb	0.10	40000	PASS
Bifenazate	149877-41-8	ND	ppb	0.10	5000	PASS
Bifenthrin	82657-04-3	ND	ppb	0.20	500	PASS
Cyfluthrin	68359-37-5	ND	ppb	0.50	1000	*
Daminozide	1596-84-5	ND	ppb	10.00	10	PASS
Dichlorvos	62-73-7	ND	ppb	3.00	10	*
Etoxazole	153233-91-1	ND	ppb	0.10	1500	PASS
Fenoxycarb	72490-01-8	ND	ppb	0.10	10	PASS
Imazalil	35554-44-0	ND	ppb	0.10	10	PASS
Imidacloprid	138261-41-3	ND	ppb	0.10	3000	PASS
Myclobutanil	88671-89-0	ND	ppb	0.10	9000	PASS
Paclobutrazol	76738-62-0	ND	ppb	0.10	10	PASS
Piperonyl butoxide	51-03-6	ND	ppb	0.10	8000	PASS
Pyrethrin	8003-34-7	ND	ppb	0.1	1000	PASS
Spinosad	168316-95-8	ND	ppb	0.1	3000	PASS
Spiromesifen	283594-90-1	ND	ppb	0.10	12000	PASS
Spirotetramat	203313-25-1	ND	ppb	0.10	13000	PASS
Trifloxystrobin	141517-21-7	ND	ppb	0.10	30000	PASS

* Testing limits for ingestion established by the State of California: CCR, Title 16, Division 42, Chapter 5, Section 5313. ND indicates "none detected" above the lower limit of detection (LLD). Analytes marked with (*) indicate analytes for which no recovery was observed for a pre-spiked matrix sample.

VC: Analysis of Volatile Organic Compounds [WI-10-07] Analyst: CJH Test Date: 6/22/2
--

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.

30929-VC

Compound	CAS	Amount ¹	Limit ²	Status
Propane	74-98-6	ND	N/A	-
Isobutane	75-28-5	ND	5,000 ppm	PASS
Butane	106-97-8	ND	5,000 ppm	PASS
Methanol	67-56-1	ND	3,000 ppm	PASS
2-Methylbutane	78-78-4	ND	N/A	-
Pentane	109-66-0	183 ppm	5,000 ppm	PASS
Ethanol	64-17-5	ND	5,000 ppm	PASS
Acetone	67-64-1	ND	5,000 ppm	PASS
Isopropanol	67-63-0	ND	5,000 ppm	PASS
Acetonitrile	75-05-8	ND	410 ppm	PASS
2,3-Dimethylbutane	79-29-8	ND	N/A	
Hexane	110-54-3	ND	290 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