



Certificate ID: **29821**

Received: **4/20/2018**



Kismet Trace

Client Sample ID: **CBD 2**

1570 Pacheco St D-1

Lot Number:

Santa Fe, NM 87505

Matrix: **Concentrates/Extracts - Isolate**

Attn: Jill Browning

Authorization: Matthew Silva, Chemical Engineer	Signature: 	Date: 5/1/2018
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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-10-04]

Analyst: RAS

Test Date: 5/1/2018

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.

29821-CN

ID	Weight %	Conc.			
Δ9-THC	ND	ND			
THCV	ND	ND			
CBD	99.39 wt %	993.90 mg/g			
CBDV	0.41 wt %	4.10 mg/g			
CBG	ND	ND			
CBC	ND	ND			
CBN	ND	ND			
THCA	ND	ND			
CBDA	ND	ND			
CBGA	ND	ND			
Total	99.80 wt%	998.00 mg/g	0%	Cannabinoids (wt%)	99.4%
Max THC	-	-			
Max CBD	99.39 wt%	993.90 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 x THCA) + THC. ND = None detected above the limits of detection (LLD)

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

Analyst: JFD

Test Date: 4/26/2018

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.

29821-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	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)

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.

PST: Pesticide Analysis [WI-10-11]

Analyst: KSB

Test Date: 4/26/2018

The client sample was analyzed 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).

29821-PST

Analyte	CAS	Result	Units	LLD	Limits (ppb)	Status
Abamectin	71751-41-2	ND	ppb	0.20	20	PASS
Azoxystrobin	131860-33-8	ND	ppb	0.10	10	PASS
Bifenazate	149877-41-8	ND	ppb	0.10	100	PASS
Bifenthrin	82657-04-3	ND	ppb	0.20	10	PASS
Cyfluthrin	68359-37-5	ND	ppb	0.50	10	*
Daminozide	1596-84-5	ND	ppb	10.00	10	PASS
Dichlorvos	62-73-7	ND	ppb	3.00	20	*
Etoxazole	153233-91-1	ND	ppb	0.10	100	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	20	PASS
Myclobutanil	88671-89-0	ND	ppb	0.10	20	PASS
Paclobutrazol	76738-62-0	ND	ppb	0.10	10	PASS
Piperonyl butoxide	51-03-6	ND	ppb	0.10	3000	PASS
Pyrethrin	8003-34-7	ND	ppb	0.1	500	PASS
Spinosad	168316-95-8	ND	ppb	0.1	100	PASS
Spiromesifen	283594-90-1	ND	ppb	0.10	100	PASS
Spirotetramat	203313-25-1	ND	ppb	0.10	100	PASS
Trifloxystrobin	141517-21-7	ND	ppb	0.10	100	PASS

* Testing limits established by the Massachusetts Department of Public Health, Protocol for Sampling and Analysis of Finished Medical Marijuana Products and Marijuana-Infused Products for Massachusetts Registered Medical Marijuana Dispensaries, Exhibit 5. 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: 4/23/2018

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.

29821-VC

Compound	CAS	Amount ¹	Limit ²	Status
Methanol	67-56-1	ND	3,000 ppm	PASS
2-Methylbutane	78-78-4	6 ppm	N/A	-
Pentane	109-66-0	905 ppm	5,000 ppm	PASS
Isopropanol	67-63-0	ND	5,000 ppm	PASS
2,3-Dimethylbutane	79-29-8	10 ppm	N/A	-

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