

Certificate ID: [REDACTED]
 Client Sample ID: [REDACTED]
 Matrix: **Concentrates/Extracts - Alcohol**
 Date Received: **3/02/2018**



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.

Authorization: Matthew Silva, Chemical Engineer	Signature: 	Date: 3/02/2018
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CN: Cannabinoid Profile & Potency [WI-3-02] *Analyst: JDP* *Test Date: 3/02/2018*

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.

22069-CN



ID	Weight %	Conc.
Δ^9 -THC	-	-
THCV	-	-
CBD	99.37 wt %	993.70 mg/g
CBDV	0.37 wt %	3.68 mg/g
CBG	-	-
CBC	-	-
CBN	-	-
THCA	-	-
CBDA	-	-
CBGA	-	-
Total	99.74 wt%	997.38 mg/g
Max THC	-	-
Max CBD	99.37 wt%	993.70 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: $\text{Max THC} = (0.877 \times \text{THCA}) + \text{THC}$.

HM: Heavy Metal Analysis [WI-3-02]

Analyst: JFD

Test Date: 3/02/2018

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22069-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.

MB1: Microbiological Contaminants [WI-3-02]

Analyst: I-Jen

Test Date: 3/02/2018

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22069-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-3-02]

Analyst: CJB

Test Date: 3/02/2018

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22069-MY

Test ID	Date	Results	MDL	Limits	Status*
Total Aflatoxin	10/13/2017	< MDL	3 ppb	< 20 ppb	PASS
Total Ochratoxin	10/13/2017	< MDL	2 ppb	< 20 ppb	PASS

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).

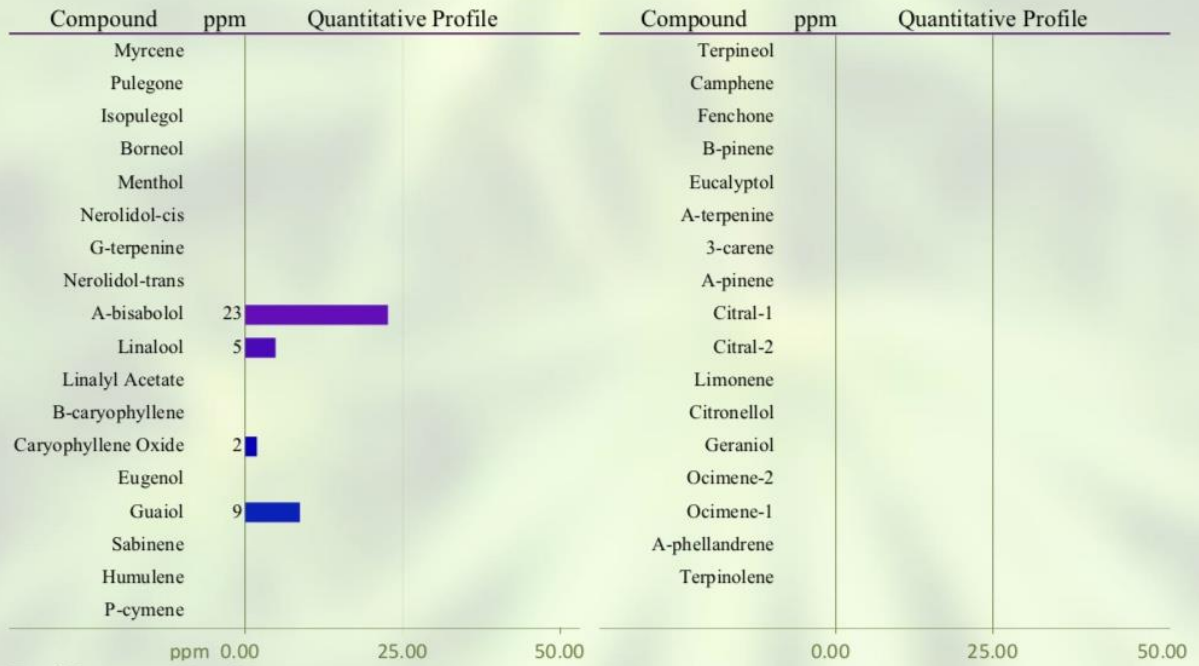
22069-PST

Analyte	CAS	Result	Units	LLD	Limits (ppb)	Status
Abamectin	71751-41-2	ND	ppb	0.2	500	PASS
Azoxystrobin	131860-33-8	ND	ppb	0.1	200	PASS
Bifenazate	149877-41-8	ND	ppb	0.1	200	PASS
Bifenthrin	82657-04-3	ND	ppb	0.2	200	PASS
Cyfluthrin	68359-37-5	ND	ppb	0.5	1000	*
Daminozide	1596-84-5	ND	ppb	10	1000	PASS
Dichlorvos	62-73-7	ND	ppb	3	100	PASS
Etoxazole	153233-91-1	ND	ppb	0.1	200	PASS
Fenoxycarb	72490-01-8	ND	ppb	0.1	200	PASS
Imazalil	35554-44-0	ND	ppb	0.1	200	PASS
Imidacloprid	138261-41-3	ND	ppb	0.1	400	PASS
Myclobutanil	88671-89-0	ND	ppb	0.1	200	PASS
Paclotubrazol	76738-62-0	ND	ppb	0.1	400	PASS
Piperonyl butoxide	51-03-6	ND	ppb	0.1	2000	PASS
Pyrethrin	8003-34-7	ND	ppb	0.1	1000	PASS
Spinosad	168316-95-8	ND	ppb	0.1	200	PASS
Spiromesifen	283594-90-1	ND	ppb	0.1	200	PASS
Spirotetramat	203313-25-1	ND	ppb	0.1	200	PASS
Trifloxystrobin	141517-21-7	ND	ppb	0.1	200	PASS

* Testing limits established by the State of Oregon: OAR 333-007-0400, Table 3. 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.

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.

22069-TP



Total Terpene: <0.1 wt%

* Indicates qualitative calculation based on recorded peak areas.