



Certificate ID: **59812**

Received: **7/18/19**

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XO CBD

3550 El Cajon Avenue, Suite A.

Shasta Lake City, CA 96019

Attn: Cole Berger

Client Sample ID: **2000mg Tincture**

Lot Number: **19819-D2000-A01-T10**

Matrix: **Tincture - MCT Oil**

Authorization:

Jon Podgorni, Lab Manager

Signature:



Date:

8/1/2019



The data contained within this report was collected in accordance with the requirements of ISO/IEC17025:2017. 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: 7/24/2019

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.

59812-CN

ID	Weight %	Concentration (mg/mL)		
D9-THC	ND	ND		
THCV	ND	ND		
CBD	6.94	64.88		
CBDV	0.02	0.16		
CBG	ND	ND		
CBC	ND	ND		
CBN	ND	ND		
THCA	ND	ND		
CBDA	ND	ND		
CBGA	ND	ND		
D8-THC	ND	ND		
exo-THC	ND	ND		
Total	6.96	65.05	0%	Cannabinoids (wt%) 6.9%
Max THC	-	-		
Max CBD	6.94	64.88		

Limit of Quantitation (LOQ) = 0.011 wt%

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: 7/26/2019

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.

59812-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-10-09]

Analyst: aem

Test Date: 7/22/2019

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.

59812-MB1

Symbol	Analysis	Results	Units	Limits*	Status
AC	Total Aerobic Bacterial Count	=330	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.

MB2: Pathogenic Bacterial Contaminants [WI-10-10]

Analyst: LabAdmin

Test Date: 7/23/2019

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.

59812-MB2

Test ID	Analysis	Results	Units	Limits*	Status
59812-ECPT	E. coli (O157)	Negative	NA	Non Detected	PASS
59812-SPT	Salmonella	Negative	NA	Non Detected	PASS

Note: All recorded pathogenic bacteria tests passed.

PST: Pesticide Analysis [WI-10-11]*Analyst: RAS**Test Date: 8/1/2019*

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).

59812-PST

Analyte	CAS	Result	Units	LLD	Limits (ppb)	Status
Abamectin B1a	65495-55-3	ND	ppb	0.20	300	*
Abamectin B1b	65195-56-4	ND	ppb	0.20	300	*
Azoxystrobin	131860-33-8	ND	ppb	0.10	40000	*
Bifenazate	149877-41-8	ND	ppb	0.10	5000	*
Bifenthrin	82657-04-3	ND	ppb	0.20	500	*
Cyfluthrin	68359-37-5	ND	ppb	0.50	1000	*
Daminozide	1596-84-5	ND	ppb	10.00	10	*
Etoxazole	153233-91-1	ND	ppb	0.10	1500	*
Fenoxycarb	72490-01-8	ND	ppb	0.10	10	*
Imazalil	35554-44-0	ND	ppb	0.10	10	*
Imidacloprid	138261-41-3	ND	ppb	0.10	3000	*
Myclobutanil	88671-89-0	ND	ppb	0.10	9000	*
Paclobutrazol	76738-62-0	ND	ppb	0.10	10	*
Piperonyl butoxide	51-03-6	ND	ppb	0.10	8000	*
Pyrethrin	8003-34-7	ND	ppb	0.1	1000	*
Spinosad	168316-95-8	ND	ppb	0.1	3000	*
Spiromesifen	283594-90-1	ND	ppb	0.10	12000	*
Spirotetramat	203313-25-1	ND	ppb	0.10	13000	*
Trifloxystrobin	141517-21-7	ND	ppb	0.10	30000	*

* 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.

END OF REPORT