

Certificate ID: **15822--R**  
 Client Sample ID: **CBD Oil**  
 Matrix: **Tincture - Hempseed Oil**  
 Date Received: **2/16/2017**

**Ojai Energetics**  
**318 Graves Ave**  
**Oxnard, CA 93030**  
**Attn: William Kleidon**

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.

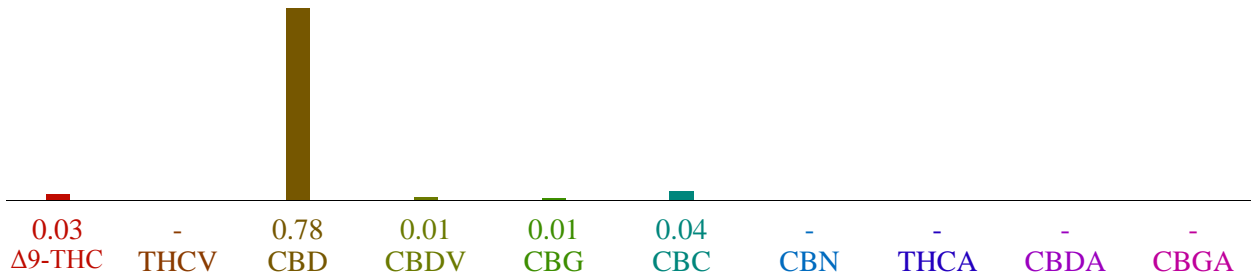
Authorization: Christopher Hudalla, CSO	Signature: 	Date: 4/10/2017
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**CN: Cannabinoid Profile & Potency [WI-10-04]**

Analyst: JFD

Test Date: 4/7/2017

The client sample was analyzed by Convergence Chromatography (CC). The collected data was compared to data collected for certified reference standards at known concentrations. These results represent a retest of a previously reported sample. Sample prep was modified to include a QuEChERS extraction prior to analysis.

**15822-CN (re-test)**


ID	Weight %	Conc.
<b>Δ9-THC</b>	<b>0.03 wt %</b>	<b>0.31 mg/mL</b>
THCV	-	-
CBD	0.78 wt %	9.05 mg/mL
CBDV	0.01 wt %	0.14 mg/mL
CBG	0.01 wt %	0.13 mg/mL
CBC	0.04 wt %	0.47 mg/mL
CBN	-	-
THCA	-	-
CBDA	-	-
CBGA	-	-
<b>Total</b>	<b>0.87 wt%</b>	<b>10.10 mg/mL</b>
Max THC	0.03 wt%	0.31 mg/mL
Max CBD	0.78 wt%	9.05 mg/mL


**Ratio of Total CBD to THC 26.0:1**

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 x THCA) + THC.

**EA: Elemental Analysis [WI-10-13]***Analyst:**Test Date: 2/17/2017*

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**15822-EA**

Symbol	Metal	Conc. <sup>1</sup>	MDL	Limits <sup>2</sup>
Al	Aluminum	15,899 ug/kg	5 ug/kg	-
Sb	Antimony	ND	5000 ug/kg	-
As	Arsenic	68 ug/kg	4 ug/kg	200 ug/kg
Br	Bromine	51,550 ug/kg	5000 ug/kg	-
Cd	Cadmium	ND	1 ug/kg	200 ug/kg
Ca	Calcium	237,351 ug/kg	500 ug/kg	-
Co	Cobalt	14 ug/kg	10 ug/kg	-
Cu	Copper	ND	500 ug/kg	-
Fe	Iron	77,765 ug/kg	5 ug/kg	-
Pb	Lead	23 ug/kg	2 ug/kg	500 ug/kg
Mg	Magnesium	283,643 ug/kg	500 ug/kg	-
Mn	Manganese	2,963 ug/kg	500 ug/kg	-
Hg	Mercury	ND	2 ug/kg	100 ug/kg
Mo	Molybdenum	ND	5000 ug/kg	-
Ni	Nickel	ND	500 ug/kg	-
Se	Selenium	13 ug/kg	10 ug/kg	-
Na	Sodium	ND	5 ug/kg	-
S	Sulfur	1,390 ug/kg	5 ug/kg	-
Sn	Tin	ND	5000 ug/kg	-
Ti	Titanium	ND	5000 ug/kg	-
Zn	Zinc	1,272 ug/kg	5 ug/kg	-

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

2) MA Dept. of Public Health: Protocol for MMJ and MIPS, Exhibit 4(a) for all products.

**PST: Pesticide Analysis [WI-10-11]**

Analyst: LA

Test Date: 2/17/2017

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).

**15822-PST**

Analyte	CAS	Result	Units	LLD	Limits (ppb)	Status
Abamectin	71751-41-2	ND	ppb	0.2	10	PASS
Acequinocyl	57960-19-7	ND	ppb	0.5	10	*
Bifenazate	149877-41-8	ND	ppb	0.01	10	PASS
Bifenthrin	82657-04-03	ND	ppb	0.11	10	PASS
Chlormequat chloride	999-81-5	ND	ppb	0.09	10	PASS
Cyfluthrin	68359-37-5	ND	ppb	0.5	10	*
Daminozide	1596-84-5	ND	ppb	10	10	*
Etoxazole	153233-91-1	ND	ppb	0.01	10	PASS
Fenoxycarb	72490-01-8	ND	ppb	0.07	10	PASS
Imazalil	35554-44-0	ND	ppb	0.03	10	PASS
Imidacloprid	138261-41-3	ND	ppb	0.06	10	PASS
Myclobutanil	88671-89-0	ND	ppb	0.03	10	PASS
Paclobutrazol	76738-62-0	ND	ppb	0.05	10	PASS
Pyrethrin	8003-34-7	ND	ppb	0.06	10	PASS
Spinosad	168316-95-8	ND	ppb	0.01	10	PASS
Spiromesifen	283594-90-1	ND	ppb	0.01	10	PASS
Spirotetramat	203313-25-1	ND	ppb	0.01	10	PASS
Trifloxystrobin	141517-21-7	DNQ	ppb	0.02	10	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 10ppb threshold. DNQ indicates a signal was detected but below the limits of quantitation. Analytes marked with (\*) indicate analytes for which no recovery was observed for a pre-spiked matrix sample.

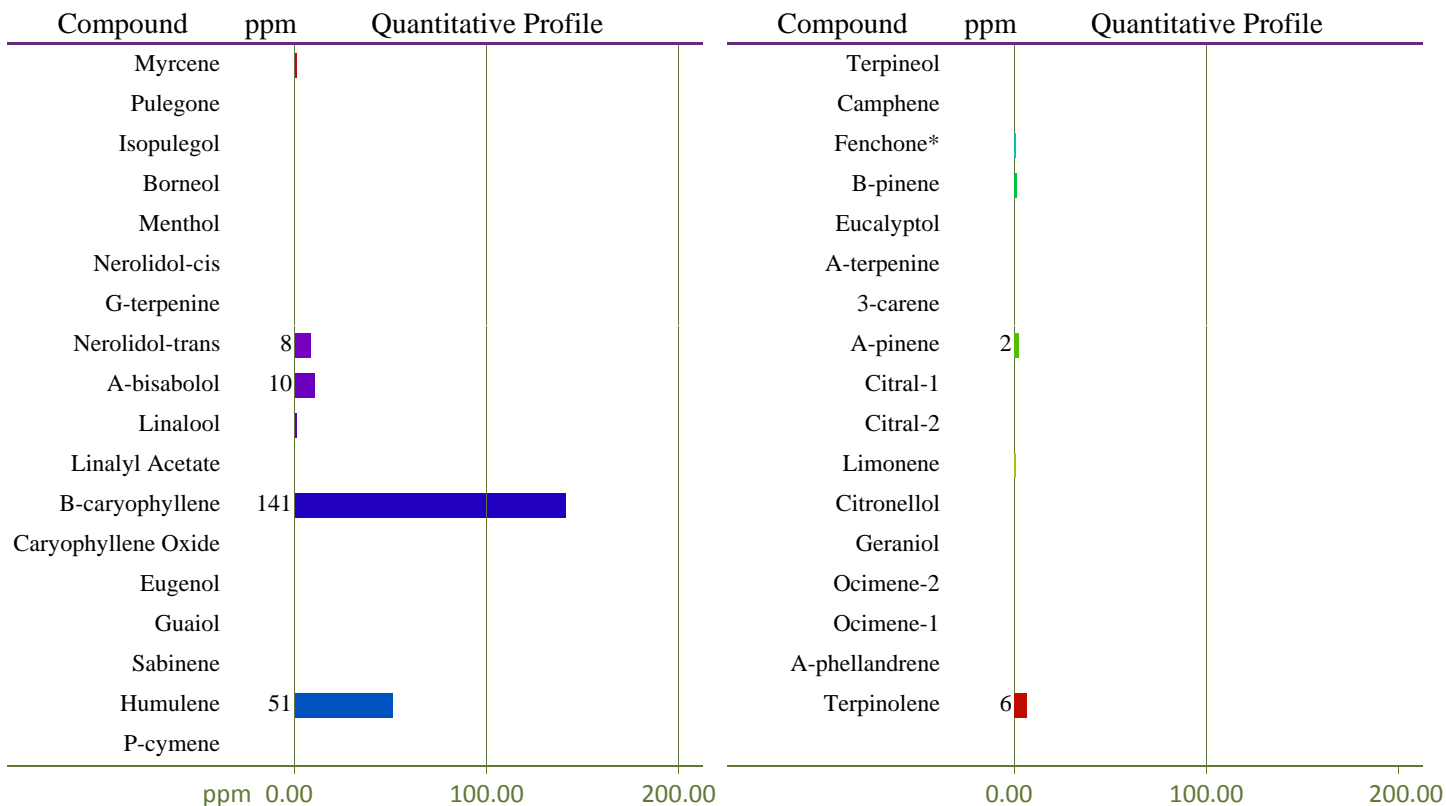
**TP: Terpenes Profile [W1-10-08]**

Analyst:

Test Date: 2/17/2017

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.

**15822-TP**



Total Terpene: <0.1 wt%

\* Indicates qualitative calculation based on recorded peak areas.

**VC: Analysis of Volatile Organic Compounds [WI-10-07]**

Analyst:

Test Date: 2/17/2017

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.

**15822-VC**

Compound	CAS	Amount <sup>1</sup>	Limit <sup>2</sup>	Status
Methanol	67-56-1	59 ppm	3,000 ppm	PASS
Ethanol	64-17-5	ND	5,000 ppm	PASS
Acetone	67-64-1	10 ppm	5,000 ppm	PASS
3-methylpentane	96-14-0	14 ppm	N/A	-
2-butanone	78-93-3	7 ppm	N/A	-
Heptane	142-82-5	22 ppm	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**