

Certificate ID: **14538**  
 Client Sample ID: **CBD Oil**  
 Matrix: **Tincture - Hemp Seed Oil**  
 Date Received: **12/21/2016**

**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.

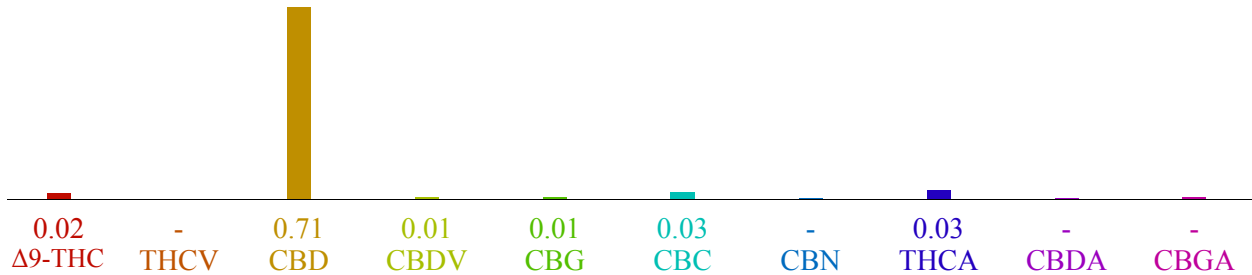
|  |  |                     |
|--|--|---------------------|
| Authorization:<br>Christopher Hudalla, CSO | Signature:<br> | Date:<br>12/29/2016 |
|--|--|---------------------|

**CN: Cannabinoid Profile & Potency [WI-10-04]**

Analyst: LA

Test Date: 12/22/2016

The client sample was analyzed by Convergence Chromatography (CC). The collected data was compared to data collected for certified reference standards at known concentrations.

**14538-CN**


| ID      | Weight %  | Conc.      |
|---------|-----------|------------|
| Δ9-THC  | 0.02 wt % | 0.27 mg/mL |
| THCV    | -         | -          |
| CBD     | 0.71 wt % | 8.25 mg/mL |
| CBDV    | 0.01 wt % | 0.13 mg/mL |
| CBG     | 0.01 wt % | 0.12 mg/mL |
| CBC     | 0.03 wt % | 0.32 mg/mL |
| CBN     | 0.00 wt % | 0.06 mg/mL |
| THCA    | 0.03 wt % | 0.39 mg/mL |
| CBDA    | 0.01 wt % | 0.08 mg/mL |
| CBGA    | 0.01 wt % | 0.09 mg/mL |
| Total   | 0.84 wt%  | 9.70 mg/mL |
| Max THC | 0.05 wt%  | 0.61 mg/mL |
| Max CBD | 0.72 wt%  | 8.32 mg/mL |


**Ratio of Total CBD to THC 14.4:1**

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:  $\text{Max THC} = (0.877 \times \text{THCA}) + \text{THC}$ .

**EA: Elemental Analysis [WI-10-13]***Analyst:**Test Date: 12/29/2016*

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**14538-EA**

| Symbol | Metal     | Conc. <sup>1</sup> | MDL        | Limits <sup>2</sup> |
|--------|-----------|--------------------|------------|---------------------|
| Al     | Aluminum  | 28,020 ug/kg       | 5 ug/kg    | -                   |
| As     | Arsenic   | 63 ug/kg           | 4 ug/kg    | 200 ug/kg           |
| Ba     | Barium    | 1,362 ug/kg        | 0 ug/kg    | -                   |
| Br     | Bromine   | 59,265 ug/kg       | 5000 ug/kg | -                   |
| Cd     | Cadmium   | ND                 | 1 ug/kg    | 200 ug/kg           |
| Ca     | Calcium   | 272,155 ug/kg      | 500 ug/kg  | -                   |
| Cr     | Chromium  | 208 ug/kg          | 5 ug/kg    | -                   |
| Co     | Cobalt    | ND                 | 10 ug/kg   | -                   |
| Cu     | Copper    | ND                 | 500 ug/kg  | -                   |
| Ga     | Gallium   | ND                 | 5000 ug/kg | -                   |
| Pb     | Lead      | 17 ug/kg           | 2 ug/kg    | 500 ug/kg           |
| Mg     | Magnesium | 279,810 ug/kg      | 500 ug/kg  | -                   |
| Mn     | Manganese | 3,206 ug/kg        | 500 ug/kg  | -                   |
| Hg     | Mercury   | 6 ug/kg            | 2 ug/kg    | 100 ug/kg           |
| Ni     | Nickel    | ND                 | 500 ug/kg  | -                   |
| K      | Potassium | 1,004,842 ug/kg    | 5 ug/kg    | -                   |
| Se     | Selenium  | 11 ug/kg           | 10 ug/kg   | -                   |
| Na     | Sodium    | 293,045 ug/kg      | 5 ug/kg    | -                   |
| S      | Sulfur    | 3,260 ug/kg        | 5 ug/kg    | -                   |
| Sn     | Tin       | ND                 | 5000 ug/kg | -                   |
| Zn     | Zinc      | 1,570 ug/kg        | 5 ug/kg    | -                   |
| Zr     | Zirconium | 130 ug/kg          | 0 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: 12/22/2016

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).

**14538-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 | ND     | 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. Analytes marked with (\*) indicate analytes for which no recovery was observed for a pre-spiked matrix sample.

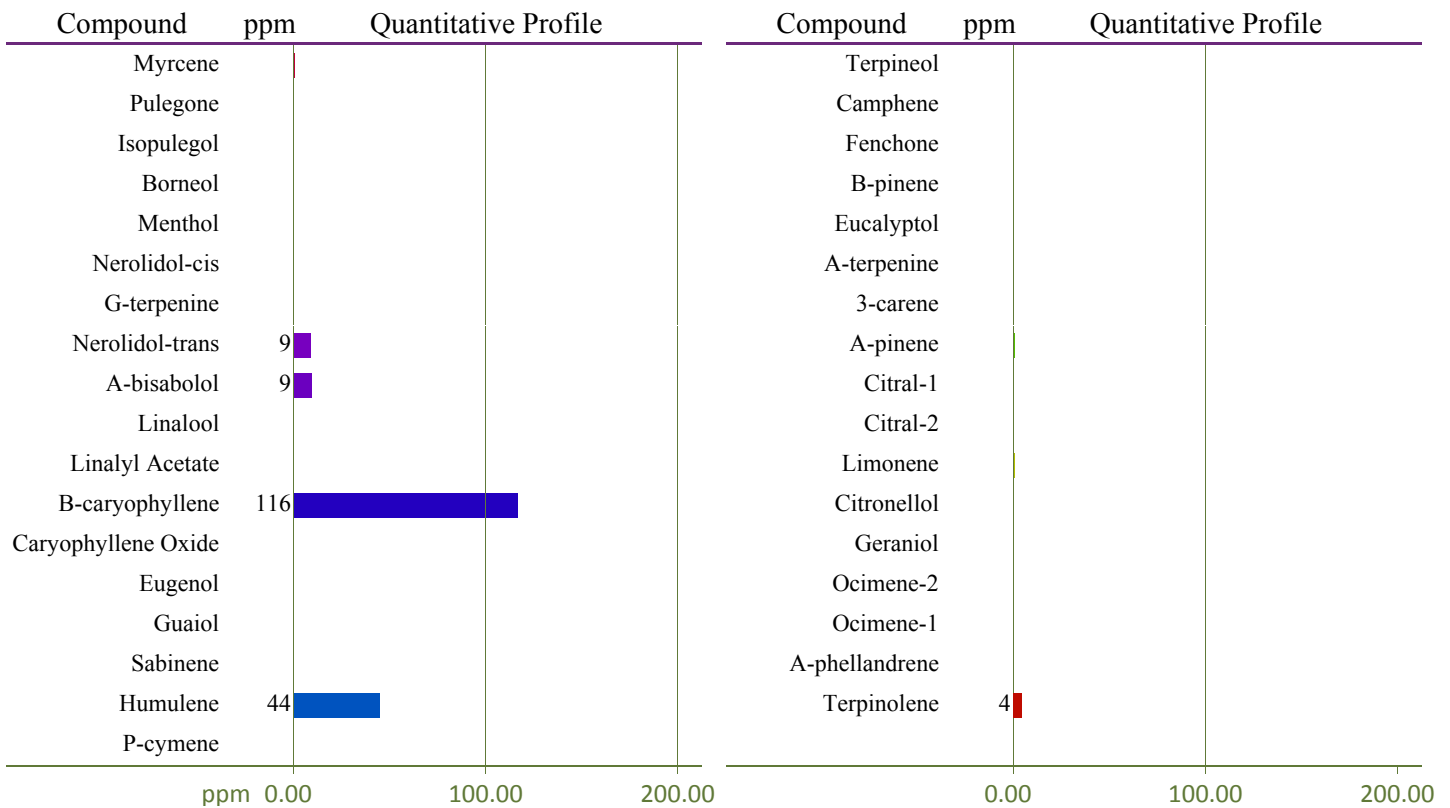
**TP: Terpenes Profile [W1-10-08]**

Analyst: LabTech

Test Date: 12/21/2016

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.

**14538-TP**



Total Terpene: <0.1 wt%

\* Indicates qualitative calculation based on recorded peak areas.

**VC: Analysis of Volatile Organic Compounds [WI-10-07]***Analyst: LabTech**Test Date: 12/21/2016*

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.

**14538-VC**

| Compound        | CAS      | Amount <sup>1</sup> | Limit <sup>2</sup> | Status |
|-----------------|----------|---------------------|--------------------|--------|
| Heptane         | 142-82-5 | 22 ppm              | 5,000 ppm          | PASS   |
| 3-methylpentane | 96-14-0  | 14 ppm              | N/A                | -      |
| Isopropanol     | 67-63-0  | ND                  | 5,000 ppm          | PASS   |
| Acetone         | 67-64-1  | 6 ppm               | 5,000 ppm          | PASS   |
| Ethanol         | 64-17-5  | ND                  | 5,000 ppm          | PASS   |
| Methanol        | 67-56-1  | 43 ppm              | 3,000 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**