


Certificate ID: **39420**  
 Client Sample ID: **EMT023**  
 Lot Number: **Lot 1**  
 Matrix: **Tincture - Hemp Oil**

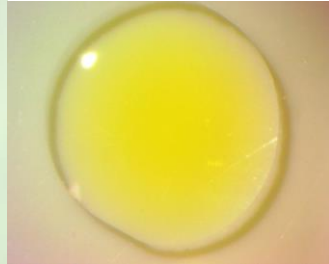
Received: **9/12/18**

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|  |  |                           |
|--|--|---------------------------|
| Authorization:<br><b>Jon Podgorni, Lab Manager</b> | Signature:<br> | Date:<br><b>9/20/2018</b> |
|--|--|---------------------------|



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.

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

Analyst: *JFD*

Test Date: *9/18/2018*

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.

**39420-HM**

| Symbol | Metal   | Conc. <sup>1</sup> | Units | MDL | Use Limits <sup>2</sup> |           | 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.

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.

**39420-MY**

| Test ID          | Date      | Results | MDL   | Limits   | Status* |
|------------------|-----------|---------|-------|----------|---------|
| Total Aflatoxin  | 9/13/2018 | < MDL   | 3 ppb | < 20 ppb | PASS    |
| Total Ochratoxin | 9/13/2018 | < MDL   | 2 ppb | < 20 ppb | PASS    |

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

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).

**39420-PST**

| Analyte            | CAS         | Result | Units | LLD   | Limits (ppb) | Status |
|--------------------|-------------|--------|-------|-------|--------------|--------|
| Abamectin          | 71751-41-2  | ND     | ppb   | 0.20  | 300          | PASS   |
| Abamectin B1b      | 65195-56-4  | ND     | ppb   | 0.20  | 300          | *      |
| Azoxystrobin       | 131860-33-8 | ND     | ppb   | 0.10  | 40000        | PASS   |
| Bifenazate         | 149877-41-8 | ND     | ppb   | 0.10  | 5000         | PASS   |
| Bifenthrin         | 82657-04-3  | ND     | ppb   | 0.20  | 500          | PASS   |
| Cyfluthrin         | 68359-37-5  | ND     | ppb   | 0.50  | 1000         | *      |
| Daminozide         | 1596-84-5   | ND     | ppb   | 10.00 | 10           | PASS   |
| Etoazole           | 153233-91-1 | ND     | ppb   | 0.10  | 1500         | 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  | 3000         | PASS   |
| Myclobutanil       | 88671-89-0  | ND     | ppb   | 0.10  | 9000         | PASS   |
| Paclobutrazol      | 76738-62-0  | ND     | ppb   | 0.10  | 10           | PASS   |
| Piperonyl butoxide | 51-03-6     | ND     | ppb   | 0.10  | 8000         | PASS   |
| Pyrethrin          | 8003-34-7   | ND     | ppb   | 0.1   | 1000         | PASS   |
| Spinosad           | 168316-95-8 | ND     | ppb   | 0.1   | 3000         | PASS   |
| Spiromesifen       | 283594-90-1 | ND     | ppb   | 0.10  | 12000        | *      |
| Spirotetramat      | 203313-25-1 | ND     | ppb   | 0.10  | 13000        | PASS   |
| Trifloxystrobin    | 141517-21-7 | ND     | ppb   | 0.10  | 30000        | PASS   |

\* 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**