




Certificate ID: **54528**  
 Client Sample ID: **07F19**  
 Lot Number: **071902**  
 Matrix: **Tincture - MCT Oil**

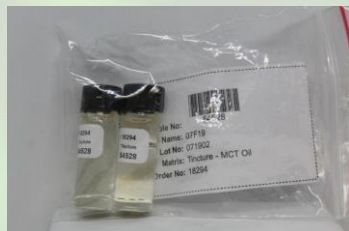
Received: **5/13/19**

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**Botanical Processing LLC**  
**4484 Robards Ln**  
**Louisville, KY 40218**  
**Attn: Marie Grinstead**

|  |  |                           |
|--|--|---------------------------|
| Authorization:<br><b>Jon Podgorni, Lab Manager</b> | Signature:<br> | Date:<br><b>5/20/2019</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: *5/15/2019*

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.

**54528-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.

**MB1: Microbiological Contaminants [WI-10-09]**

Analyst: AKR

Test Date: 5/14/2019

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.

**54528-MB1**

| Symbol | Analysis                                | Results | Units | Limits*       | Status |
|--------|---|---------|-------|---------------|--------|
| AC     | Total Aerobic Bacterial Count           | <100    | 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: 5/17/2019

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.

**54528-MB2**

| Test ID    | Analysis       | Results  | Units | Limits*      | Status |
|------------|----------------|----------|-------|--------------|--------|
| 54528-ECPT | E. coli (O157) | Negative | NA    | Non Detected | PASS   |
| 54528-SPT  | Salmonella     | Negative | NA    | Non Detected | PASS   |

Note: All recorded pathogenic bacteria tests passed.

**MY: Mycotoxin Testing [WI-10-05]**

Analyst: AR

Test Date: 5/16/2019

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.

**54528-MY**

| Test ID          | Date      | Results | MDL   | Limits   | Status* |
|------------------|-----------|---------|-------|----------|---------|
| Total Aflatoxin  | 5/16/2019 | < MDL   | 2 ppb | < 20 ppb | PASS    |
| Total Ochratoxin | 5/16/2019 | < MDL   | 3 ppb | < 20 ppb | PASS    |

**PST: Pesticide Analysis [WI-10-11]***Analyst: RAS**Test Date: 5/18/2019*

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).

**54528-PST**

| Analyte            | CAS         | Result | Units | LLD   | Limits (ppb) | Status |
|--------------------|-------------|--------|-------|-------|--------------|--------|
| Abamectin B1a      | 65495-55-3  | 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          | *      |
| Cyfluthrin         | 68359-37-5  | ND     | ppb   | 0.50  | 1000         | PASS   |
| Daminozide         | 1596-84-5   | ND     | ppb   | 10.00 | 10           | *      |
| Etoxazole          | 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        | PASS   |
| 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.

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

Analyst: CMA

Test Date: 5/16/2019

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.

**54528-VC**

| Compound     | CAS      | Amount <sup>1</sup> | Limit <sup>2</sup> | RL  | Status |
|--------------|----------|---------------------|--------------------|-----|--------|
| Propane      | 74-98-6  | ND                  | 1,000 ppm          | 200 | PASS   |
| Isobutane    | 75-28-5  | ND                  | 1,000 ppm          | 200 | PASS   |
| Butane       | 106-97-8 | ND                  | 1,000 ppm          | 200 | PASS   |
| Methanol     | 67-56-1  | ND                  | 3,000 ppm          | 200 | PASS   |
| Ethanol      | 64-17-5  | ND                  | 5,000 ppm          | 200 | PASS   |
| Acetone      | 67-64-1  | ND                  | 5,000 ppm          | 200 | PASS   |
| Isopropanol  | 67-63-0  | ND                  | 5,000 ppm          | 200 | PASS   |
| Acetonitrile | 75-05-8  | ND                  | 410 ppm            | 200 | PASS   |
| Hexane       | 110-54-3 | ND                  | 290 ppm            | 200 | PASS   |
| Heptane      | 142-82-5 | ND                  | 5,000 ppm          | 200 | PASS   |

1) ND = Not detected at a level greater than the Reporting Limit (RL).

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**