



Certificate ID: **90269**

Received: **11/23/20**

Scan QR Code for authenticity

**Kevin McAloon**

Client Sample ID: **20201004**



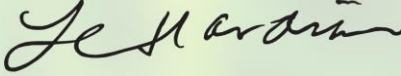
**5 Drapeau St Suite #104**

Lot Number:

**Biddeford, ME 04005**

Matrix: **Concentrates/Extracts - Rick Simpson Oil**

**Attn: Kevin McAloon**

|   |  |                        |
|---|--|------------------------|
| Authorization:<br><br>Lisa Harding, Lab Manager | Signature:<br> | Date:<br><br>12/2/2020 |
|---|--|------------------------|



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: AC

Test Date: 12/1/2020

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.

**90269-CN**

| ID      | Weight % | Concentration (mg/g) |   |                          |
|---------|----------|----------------------|---|--------------------------|
| D9-THC  | 1.20     | 12.0                 |  |                          |
| THCV    | ND       | ND                   |   |                          |
| CBD     | 12.4     | 124                  |  |                          |
| CBDV    | 0.188    | 1.88                 |  |                          |
| CBG     | 0.433    | 4.33                 |  |                          |
| CBC     | 0.831    | 8.31                 |  |                          |
| CBN     | ND       | ND                   |   |                          |
| THCA    | 1.30     | 13.0                 |  |                          |
| CBDA    | 48.4     | 484                  |  |                          |
| CBGA    | 1.74     | 17.4                 |  |                          |
| D8-THC  | ND       | ND                   |   |                          |
| exo-THC | ND       | ND                   |   |                          |
| Total   | 66.6     | 666                  | 0%  | Cannabinoids (wt%) 48.4% |
| Max THC | 2.34     | 23.4                 |   |                          |
| Max CBD | 54.9     | 549                  |   |                          |

**Ratio of Total CBD to THC 23.5:1**

Limit of Quantitation (LOQ) = 0.105 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 (LOD), which is one third of LOQ.

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

Analyst: LCH

Test Date: 11/28/2020

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).

**90269-PST**

| Analyte            | CAS         | Result | Units | LLD  | Limits (ppb) | Status |
|--------------------|-------------|--------|-------|------|--------------|--------|
| Abamectin          | 71751-41-2  | ND     | ppb   | 0.20 | 300          | PASS   |
| Spinosad           | 168316-95-8 | ND     | ppb   | 0.10 | 3000         | PASS   |
| Pyrethrin          | 8003-34-7   | ND     | ppb   | 0.10 | 1000         | PASS   |
| Trifloxystrobin    | 141517-21-7 | ND     | ppb   | 0.10 | 30000        | PASS   |
| Spirotetramat      | 203313-25-1 | ND     | ppb   | 0.10 | 13000        | PASS   |
| Spiromesifen       | 283594-90-1 | ND     | ppb   | 0.10 | 12000        | PASS   |
| Piperonyl butoxide | 51-03-6     | ND     | ppb   | 0.10 | 8000         | PASS   |
| Paclobutrazol      | 76738-62-0  | ND     | ppb   | 0.10 | 10           | PASS   |
| Myclobutanil       | 88671-89-0  | ND     | ppb   | 0.10 | 9000         | PASS   |
| Imidacloprid       | 138261-41-3 | ND     | ppb   | 0.10 | 3000         | PASS   |
| Imazalil           | 35554-44-0  | ND     | ppb   | 0.10 | 10           | PASS   |
| Fenoxycarb         | 72490-01-8  | ND     | ppb   | 0.10 | 10           | PASS   |
| Etoazole           | 153233-91-1 | ND     | ppb   | 0.10 | 1500         | PASS   |
| Dichlorvos         | 62-73-7     | ND     | ppb   | 3.00 | 10           | PASS   |
| Cyfluthrin         | 68359-37-5  | ND     | ppb   | 0.50 | 1000         | PASS   |
| Bifenthrin         | 82657-04-3  | ND     | ppb   | 0.20 | 500          | PASS   |
| Bifenazate         | 149877-41-8 | ND     | ppb   | 0.10 | 5000         | PASS   |
| Azoxystrobin       | 131860-33-8 | ND     | ppb   | 0.10 | 40000        | 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.

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

Analyst: AC

Test Date: 11/30/2020

Client sample analysis was performed using full evaporative technique (FET) headspace sample delivery and gas chromatographic (GC) compound separation. A combination of flame ionization detection (FID) and/or mass spectrometric (MS) detection with mass spectral confirmation against the National Institute of Standards and Technology (NIST) Mass Spectral Database, Revision 2017 were used. Chromatographic and/or mass spectral data were processed by quantitatively comparing the analytical peak areas against calibration curves prepared from certified reference standards.

**90269-TP**

| Compound           | CAS        | Conc. (wt%) | Conc. (ppm) | Qualitative Profile |
|--------------------|------------|-------------|-------------|---------------------|
| alpha-pinene       | 80-56-8    | 0.0065      | 64.5        |                     |
| camphene           | 79-92-5    | 0.0009      | 9.40        |                     |
| myrcene            | 123-36-3   | 0.0687      | 687         |                     |
| beta-pinene        | 127-91-3   | 0.0047      | 46.8        |                     |
| 3-carene           | 13466-78-9 | 0.0042      | 41.8        |                     |
| alpha-terpinene    | 99-86-5    | 0.0177      | 177         |                     |
| Ocimene-1          | -          | 0.0011      | 10.8        |                     |
| limonene           | 138-86-3   | 0.0299      | 299         |                     |
| p-cymene           | 99-87-6    | 0.0026      | 26.2        |                     |
| Ocimene-2          | -          | 0.0217      | 217         |                     |
| eucalyptol         | 470-82-6   | 0.0271      | 271         |                     |
| gamma-terpinene    | 99-85-4    | 0.0226      | 226         |                     |
| terpinolene        | 586-62-9   | 0.0837      | 837         |                     |
| linalool           | 78-70-6    | 0.0599      | 599         |                     |
| isopulegol         | 89-79-2    | 0.0047      | 47.4        |                     |
| beta-caryophyllene | 87-44-5    | 0.386       | 3,860       |                     |
| humulene           | 6753-98-6  | 0.111       | 1,110       |                     |

wt% 0.00 0.25 0.50

Total Terpene: 0.9 wt%

\* Certified reference standard not available for this compound. Concentration is estimated using the response factor from alpha-pinene. ND = None Detected. RL = Reporting Limit of 5 ppm.

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

Analyst: AC

Test Date: 11/30/2020

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.

**90269-VC**

| Compound     | CAS      | Amount <sup>1</sup> | Limit <sup>2</sup> | RL  | Status |
|--------------|----------|---------------------|--------------------|-----|--------|
| Propane      | 74-98-6  | ND                  | 1,000 ppm          | 100 | PASS   |
| Isobutane    | 75-28-5  | ND                  | 1,000 ppm          | 100 | PASS   |
| Butane       | 106-97-8 | ND                  | 1,000 ppm          | 100 | PASS   |
| Methanol     | 67-56-1  | ND                  | 3,000 ppm          | 100 | PASS   |
| Ethanol      | 64-17-5  | 6,060 ppm           | 5,000 ppm          | 100 | *      |
| Acetone      | 67-64-1  | ND                  | 5,000 ppm          | 100 | PASS   |
| Isopropanol  | 67-63-0  | ND                  | 5,000 ppm          | 100 | PASS   |
| Acetonitrile | 75-05-8  | ND                  | 410 ppm            | 100 | PASS   |
| Hexane       | 110-54-3 | ND                  | 290 ppm            | 100 | PASS   |
| Heptane      | 142-82-5 | ND                  | 5,000 ppm          | 100 | 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 for cannabis concentrates and extracts on 3/31/16. Butane/Propane limits are based on limits established for state of Colorado.

(\*) For ethanol, as many formulations contain flavorings based on ethanol extracts of natural products, no status has been assigned.

**END OF REPORT**