



Certificate ID: **86166**

Received: **8/28/20**

Scan QR Code for authenticity

**Kevin McAloon**

Client Sample ID: **20200803**



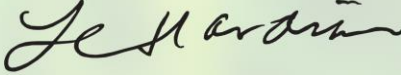
**5 Drapeau St Suite #104**

Lot Number:

**Biddeford, ME 04005**

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

**Attn: Kevin McAloon**

Authorization:  Lisa Harding, Lab Manager	Signature: 	Date:  9/10/2020
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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.








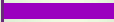

**CN: Cannabinoid Profile & Potency [WI-10-17 & WI-10-17-01]**

Analyst: AC

Test Date: 9/3/2020

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.

**86439-CN**

ID	Weight %	Concentration (mg/g)	
D9-THC	29.1	291	
THCV	0.276	2.76	
CBD	6.33	63.3	
CBDV	ND	ND	
CBG	0.898	8.98	
CBC	0.921	9.21	
CBN	0.444	4.44	
THCA	13.6	136	
CBDA	8.40	84.0	
CBGA	1.96	19.6	
D8-THC	ND	ND	
exo-THC	ND	ND	
Total	61.9	619	0% Cannabinoids (wt%) 29.1%
Max THC	41.0	410	
Max CBD	13.7	137	

**Ratio of Total CBD to THC 0.3:1**

Limit of Quantitation (LOQ) = 0.129 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.

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

Analyst: AC

Test Date: 9/9/2020

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.

**86439-TP**

Compound	CAS	Conc. (wt%)	Conc. (ppm)	Qualitative Profile
alpha-pinene	80-56-8	0.0031	30.9	
camphene	79-92-5	<RL	<RL	
myrcene	123-36-3	0.0643	643	
beta-pinene	127-91-3	0.0046	46.4	
3-carene	13466-78-9	ND	ND	
alpha-terpinene	99-86-5	0.0014	13.9	
Ocimene-1	-	0.0006	5.65	
limonene	138-86-3	0.0443	443	
p-cymene	99-87-6	0.0012	12.2	
Ocimene-2	-	0.0115	115	
eucalyptol	470-82-6	0.0138	138	
gamma-terpinene	99-85-4	0.0027	26.5	
terpinolene	586-62-9	0.0406	406	
linalool	78-70-6	0.0310	310	
isopulegol	89-79-2	ND	ND	
beta-caryophyllene	87-44-5	0.378	3,780	
humulene	6753-98-6	0.140	1,400	

wt% 0.00 0.25 0.50

Total Terpene: 0.7 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: 9/3/2020

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.

**86439-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	178 ppm	3,000 ppm	100	PASS
Ethanol	64-17-5	254 ppm	5,000 ppm	100	PASS
Acetone	67-64-1	116 ppm	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.

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

Analyst: LCH

Test Date: 9/2/2020

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).

**86166-PST**

Analyte	CAS	Result	Units	LLD	Limits (ppb)	Status
Abamectin	71751-41-2	ND	ppb	0.20	10	PASS
Spinosad	168316-95-8	ND	ppb	0.10	10	PASS
Pyrethrin	8003-34-7	ND	ppb	0.10	10	PASS
Trifloxystrobin	141517-21-7	ND	ppb	0.10	10	PASS
Spirotetramat	203313-25-1	ND	ppb	0.10	10	PASS
Spiromesifen	283594-90-1	ND	ppb	0.10	10	PASS
Piperonyl butoxide	51-03-6	ND	ppb	0.10	10	PASS
Pacllobutrazol	76738-62-0	ND	ppb	0.10	10	PASS
Myclobutanil	88671-89-0	ND	ppb	0.10	10	PASS
Imidacloprid	138261-41-3	ND	ppb	0.10	10	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	10	PASS
Dichlorvos	62-73-7	ND	ppb	3.00	10	PASS
Cyfluthrin	68359-37-5	ND	ppb	0.50	10	PASS
Bifenthrin	82657-04-3	ND	ppb	0.20	10	PASS
Bifenazate	149877-41-8	ND	ppb	0.10	10	PASS
Azoxystrobin	131860-33-8	ND	ppb	0.10	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 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**