



Certificate ID: **90057**

Received: **11/13/20**

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**Kevin McAloon**  
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**Biddeford, ME 04005**  
**Attn: Kevin McAloon**

Client Sample ID: **20200302-1**

Lot Number:

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

Authorization:  Lisa Harding, Lab Manager	Signature: 	Date:  11/20/2020
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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.


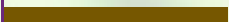





**CN: Cannabinoid Profile & Potency [WI-10-17 & WI-10-17-01]**

Analyst: AC

Test Date: 11/19/2020

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.

**90057-CN**

ID	Weight %	Concentration (mg/g)	
D9-THC	1.66	16.6	
THCV	ND	ND	
CBD	23.1	231	
CBDV	ND	ND	
CBG	0.487	4.87	
CBC	1.31	13.1	
CBN	<LOQ	<LOQ	
THCA	0.564	5.64	
CBDA	39.5	395	
CBGA	1.09	10.9	
D8-THC	ND	ND	
exo-THC	ND	ND	
Total	67.7	677	0% Cannabinoids (wt%) 39.5%
Max THC	2.15	21.5	
Max CBD	57.7	577	

**Ratio of Total CBD to THC 26.8:1**

Limit of Quantitation (LOQ) = 0.116 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: 11/18/2020

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.

**90057-TP**

Compound	CAS	Conc. (wt%)	Conc. (ppm)	Qualitative Profile
alpha-pinene	80-56-8	0.0035	35.1	
camphene	79-92-5	0.0007	7.39	
myrcene	123-36-3	0.0579	579	
beta-pinene	127-91-3	0.0056	55.7	
3-carene	13466-78-9	0.0029	28.6	
alpha-terpinene	99-86-5	0.0009	9.23	
Ocimene-1	-	0.0007	6.54	
limonene	138-86-3	0.0303	303	
p-cymene	99-87-6	0.0014	13.5	
Ocimene-2	-	0.0040	40.4	
eucalyptol	470-82-6	0.0054	53.6	
gamma-terpinene	99-85-4	0.0009	9.23	
terpinolene	586-62-9	0.0168	168	
linalool	78-70-6	0.0818	818	
isopulegol	89-79-2	ND	ND	
beta-caryophyllene	87-44-5	0.264	2,640	
humulene	6753-98-6	0.0973	973	

wt% 0.00 0.25 0.50

Total Terpene: 0.6 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: 11/18/2020

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.

**90057-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	105 ppm	3,000 ppm	100	PASS
Ethanol	64-17-5	4,810 ppm	5,000 ppm	100	PASS
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**