Certificate ID: 64444

Received: 9/12/19

Client Sample ID: 91119-1

Lot Number: Lot 18

Matrix: Concentrates/Extracts - Rick Simpson Oil



SNCE Labs

110 W. Old Andrew Johnson Hwy

Jefferson City, TN 37760

Attn: Dustin Cooper

Authorization:

Signature:

Jon Podgorni

Date:

9/20/2019



Jon Podgorni, Lead Research Chemist





PJLA Testing
Accreditation
80585

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: JSG

Test Date: 9/18/2019

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.

64444-CN

ID	Weight %	Concentration (mg/g)			
D9-THC	0.90	8.97			
THCV	ND	ND			
CBD	32.89	328.94			
CBDV	0.23	2.34			
CBG	0.42	4.23			
CBC	2.30	22.99			
CBN	0.13	1.31			
THCA	ND	ND			
CBDA	ND	ND			
CBGA	ND	ND			
D8-THC	ND	ND			
exo-THC	ND	ND			
Total	36.88	368.77	0%	Cannabinoids (wt%)	32.9%
Max THC	0.90	8.97			
Max CBD	32.89	328.94			

Ratio of Total CBD to THC 36.7:1

Limit of Quantitation (LOQ) = 0.10 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 half of LOQ.

EA: Elemental Analysis [WI-10-13]

Analyst: JFD

Test Date: 9/18/2019

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.

64444-EA

Symbol	Metal	Conc. 1	MDL	Limits ²	Status
Al	Aluminum	498 ug/kg	5 ug/kg	-	
As	Arsenic	360 ug/kg	4 ug/kg	1500 ug/kg	PASS
Cd	Cadmium	16 ug/kg	1 ug/kg	500 ug/kg	PASS
Ca	Calcium	131,160 ug/kg	500 ug/kg	-	
Cr	Chromium	5,087 ug/kg	5 ug/kg	1100000 ug/kg	PASS
Co	Cobalt	352 ug/kg	10 ug/kg	5000 ug/kg	PASS
Cu	Copper	26,852 ug/kg	500 ug/kg	300000 ug/kg	PASS
Fe	Iron	767,795 ug/kg	5 ug/kg	-	
Pb	Lead	25 ug/kg	2 ug/kg	500 ug/kg	PASS
Mg	Magnesium	2,850,263 ug/kg	500 ug/kg	-	
Mn	Manganese	58,330 ug/kg	500 ug/kg	-	
Hg	Mercury	ND	2 ug/kg	3000 ug/kg	PASS
Mo	Molybdenum	ND	50 ug/kg	300000 ug/kg	PASS
Ni	Nickel	4,995 ug/kg	50 ug/kg	20000 ug/kg	PASS
P	Phosphorus	ND	500 ug/kg	-	
K	Potassium	11,900,998 ug/kg	5 ug/kg	-	
Se	Selenium	ND	10 ug/kg	-	
Ag	Silver	ND	10 ug/kg	15000 ug/kg	PASS
S	Sulfur	ND	5 ug/kg	-	
Sn	Tin	ND	5000 ug/kg	600000 ug/kg	PASS
Zn	Zinc	103,640 ug/kg	5 ug/kg	-	

¹⁾ ND = None detected to the Method Detection Limit (MDL)

²⁾ USP recommended maximum daily limits for oral drug product.

MB1: Microbiological Contaminants [WI-10-09]

Analyst: MM

Test Date: 9/13/2019

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64444-MB1

Symbol	Analysis	Results	Units	Limits*	Status
AC	Total Aerobic Bacterial Count	<100	CFU/g	10,000 CFU/g	PASS
CC	Total Coliform Bacterial Count	<100	CFU/g	100 CFU/g	PASS
EB	Total Bile Tolerant Gram Negative Count	<100	CFU/g	100 CFU/g	PASS
YM	Total Yeast & Mold	<100	CFU/g	1,000 CFU/g	PASS

Note: All recorded Microbiological tests are within the established limits.

MB2: Pathogenic Bacterial Contaminants [WI-10-10]

Analyst: LabAdmin

Test Date: 9/14/2019

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.

64444-MB2

Test ID	Analysis	Results	Units	Limits*	Status
64444-ECPT	E. coli (O157)	Negative	NA	Non Detected	PASS
64444-SPT	Salmonella	Negative	NA	Non Detected	PASS

Note: All recorded pathogenic bacteria tests passed.

MY: Mycotoxin Testing [WI-10-05]

Analyst: AKR

Test Date: 9/17/2019

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.

64444-MY

Test ID	Date	Results	MDL	Limits	Status*	
Total Aflatoxin	9/17/2019	< MDL	2 ppb	< 20 ppb	PASS	
Total Ochratoxin	9/17/2019	< MDL	3 ppb	< 20 ppb	PASS	

PST: Pesticide Analysis [WI-10-11]

Analyst: RAS

Test Date: 9/20/2019

The client sample was anlayzed 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).

64444-PST

Analyte	CAS	Result	Units	LLD	Limits (ppb)	Status
Abamectin	71751-41-2	ND	ppb	0.2	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	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	*
Spinosad	168316-95-8	472	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.

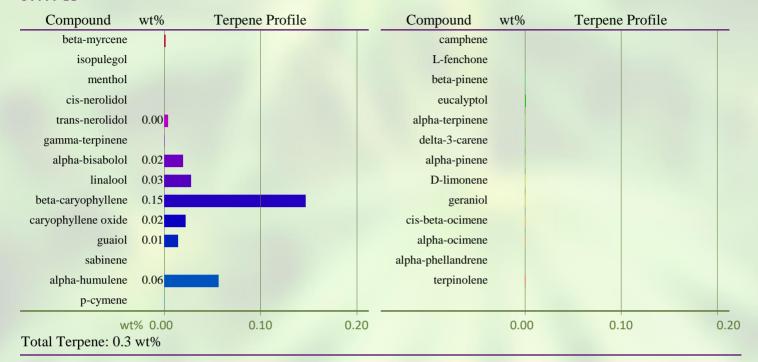
TP: Terpenes Profile [WI-10-27]

Analyst: CMA

Test Date: 9/14/2019

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. All values are semiquantitative estimates based on recorded peak areas relative to terpene calibration data.

64444-TP



VC: Analysis of Volatile Organic Compounds [WI-10-28]

Analyst: CMA

Test Date: 9/13/2019

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.

64444-VC

Compound	CAS	Amount ¹	Limit ²	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	211 ppm	3,000 ppm	100	PASS
Pentane	109-66-0	ND	5,000 ppm	100	PASS
Ethanol	64-17-5	7,306 ppm	5,000 ppm	100	*
Acetone	67-64-1	803 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
2-Butanone	78-93-3	195 ppm	N/A	100	- 4
Heptane	142-82-5	ND	5,000 ppm	100	PASS

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

END OF REPORT

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.