



Authorization:

Certificate ID: 52281

Client Sample ID: Flex Lot Number: 19095 Matrix: -

Signature:

Received: 4/8/19

Jon Podgorni, Lab Manager

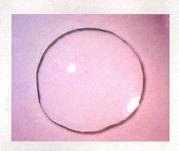
on Podgorne

Date:

The data contained within this report was collected in accordance with the requirements

4/17/2019







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 Accreditation test article listed in this report. Reports may not # 80585 be reproduced except in their entirety.

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

Analyst: LG

Test Date: 4/16/2019

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.

52281-CN

ID	Weight %	Concentration	
D9-THC	ND	ND	
THCV	ND	ND	
CBD	0.11 wt %	1.13 mg/mL	
CBDV	ND	ND	
CBG	ND	ND	
CBC	ND	ND	
CBN	ND	ND	
THCA	ND	ND	
CBDA	ND	ND	
CBGA	ND	ND	
D8-THC	ND	ND	
exo-THC	ND	ND	
Total	0.11 wt%	1.13 mg/mL	0% Cannabinoids (wt%) 0.1%
Max THC	<u>-</u>		
Max CBD	0.11 wt%	1.13 mg/mL	

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 (LLD)



Certificate of Analysis

Client Information

PurHealth RX 12248 S Lone Peak Parkway, Suite 108 Draper, UT 84020 801.903.7789

Sample Information

ARL ID: 280871

Date Received: 4/8/2019

Description: Renew / Flex Roll On (Beg,Med,&End)

Lot#: 19095

Analysis	Method	MDL	Specification	Results	MOU
Complete Micro Profile Pseudomonas	USP, AOAC				
Total Plate Count	USP <2021>	10	Record Only	None Detected	cfu's/g
Coliforms	AOAC 991.14	10	Record Only	None Detected	cfu's/g
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g
Pseudomonas aeruginosa	USP <62>	Absent	Record Only	Absent	cfu's/g
Yeast	USP <2021>	10	Record Only	None Detected	cfu's/g
Mold	USP <2021>	10	Record Only	None Detected	cfu's/g
рН	ARL 2.12	0.1	Record Only	5.8	

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Released by:

Jacob Teller Apr 15, 2019

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HM: Heavy Metal Analysis [WI-10-13]

Analyst: JFD

Test Date: 3/29/2018

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.

25691-IIM					Use	Limits 2		
Symbol	Metal	Conc.1	Units	MDL	All	Ingestion	Units	Status
As	Arsenic	ND	μg/kg	4	200	1500	μg/kg	PASS
Cđ	Cadmium	3	μg/kg	1	200	500	μg/kg	PASS
Hg	Mercury	3	μg/kg	2	100	1500	μg/kg	PASS
РЬ	Lead	37	μg/kg	2	500	1000	μg/kg	PASS

¹⁾ ND = None detected to Lowest Limits of Detection (LLD)

MB1: Microbiological Contaminants [WI-10-09]

Analyst: Alyson

Test Date: 3/29/2018

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.

25691-MB1

Symbol	Analysis	Results	Units	Limits*	Status	BANGE LINE
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: matt

Test Date: 3/29/2018

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.

25691-MB2

Test ID	Analysis	Results	Units	Limits*	Status	
25691-ECPT	E. coli (O157)	Negative	NA	Non Detected	PASS	
25691-SPT	Salmonella	Negative	NA	Non Detected	PASS	

Note: All recorded pathogenic bacteria tests passed.

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.

PST: Pesticide Analysis [WI-10-11]

Analyst: KSB

Test Date: 3/29/2018

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).

25691-PST

Analyte	CAS	Result	Units	LLD	Limits (ppb)	Status
Abamectin	71751-41-2	ND	ppb	0.2	10	PASS
Azoxystrobin	131860-33-8	ND	ppb	0.1	10	PASS
Bifenazate	149877-41-8	ND	ppb	0.1	10	PASS
Bifenthrin	82657-04-3	ND	ppb	0.2	10	PASS
Cyfluthrin	68359-37-5	ND	ppb	0.5	10	*
Daminozide	1596-84-5	ND	ppb	10	10	PASS
Dichlorvos	62-73-7	ND	ppb	3	10	*
Etoxazole	153233-91-1	ND	ppb	0.1	10	PASS
Fenoxycarb	72490-01-8	ND	ppb	0.1	10	PASS
<u>Imazalil</u>	35554-44-0	ND	ppb	0.1	10	PASS
Imidacloprid	138261-41-3	ND	ppb	0.1	10	PASS
Myclobutanil	88671-89-0	ND	ppb	0.1	10	PASS
Paclobutrazol	76738-62-0	ND	ppb	0.1	10	PASS
Piperonyl butoxide	51-03-6	ND	ppb	0.1	10	PASS
Pyrethrin	8003-34-7	ND	ppb	0.1	10	PASS
Spinosad	168316-95-8	ND	ppb	0.1	10	PASS
Spiromesifen	283594-90-1	ND	ppb	0.1	10	PASS
Spirotetramat	203313-25-1	ND	ppb	0.1	10	PASS
Trifloxystrobin	141517-21-7	ND	ppb	0.1	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.

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

Analyst: CJH

Test Date: 3/29/2018

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.

25691-VC

Compound	CAS	Amount 1	Limit ²	Status
Propane	74-98-6	ND	N/A	-
Butane	106-97-8	ND	5,000 ppm	PASS
Methanol	67-56-1	ND	3,000 ppm	PASS
Ethanol	64-17-5	ND	5,000 ppm	PASS
2,2-dimethylbutane		ND	N/A	
Acetone	67-64-1	ND	5,000 ppm	PASS
Isopropanol	67-63-0	ND	5,000 ppm	PASS
2,3-dimethylbutane	79-29-8	ND	N/A	-
3-methylpentane	96-14-0	ND	N/A	
Hexane	110-54-3	ND	290 ppm	PASS
l-propanol	71-23-8	ND	5,000 ppm	PASS
Toluene	108-88-3	ND	890 ppm	PASS

¹⁾ ND = None detected above 5 ppm.

END OF REPORT

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.