

Certificate ID: **60624**

Received: **8/2/19**

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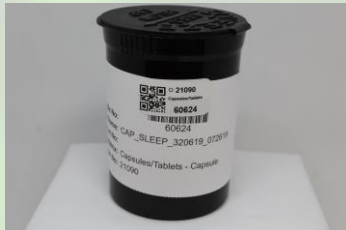
GenCanna

Client Sample ID: **CAP\_SLEEP\_320619\_072619**

Lot Number:

Matrix: **Capsules/Tablets - Capsule**

Authorization: <b>Jon Podgorni, Lab Manager</b>	Signature: <i>Jon Podgorni</i>	Date: <b>8/9/2019</b>
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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: **LG**

Test Date: **8/6/2019**

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.

**60624-CN**

ID	Weight %	Concentration (mg/capsule)		
D9-THC	0.02	0.15		
THCV	ND	ND		
CBD	2.65	17.82		
CBDV	0.01	0.04		
CBG	0.00	0.01		
CBC	0.02	0.11		
CBN	ND	ND		
THCA	ND	ND		
CBDA	0.00	0.03		
CBGA	ND	ND		
D8-THC	0.01	0.04		
exo-THC	ND	ND		
Total	2.71	18.20	0%	Cannabinoids (wt%) 2.7%
Max THC	0.02	0.15		
Max CBD	2.66	17.85		

Limit of Quantitation (LOQ) = 0.0065 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 (LLD)

**EA: Elemental Analysis [WI-10-13]**

Analyst: JFD

Test Date: 8/7/2019

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**60624-EA**

Symbol	Metal	Conc. <sup>1</sup>	MDL	Limits <sup>2</sup>	Status
Al	Aluminum	185,366 ug/kg	5 ug/kg	-	
As	Arsenic	55 ug/kg	4 ug/kg	150 ug/kg	PASS
Cd	Cadmium	41 ug/kg	1 ug/kg	2500 ug/kg	PASS
Ca	Calcium	58,487 ug/kg	500 ug/kg	-	
Cr	Chromium	1,013 ug/kg	5 ug/kg	-	
Co	Cobalt	65 ug/kg	10 ug/kg	-	
Cu	Copper	1,322 ug/kg	500 ug/kg	100000 ug/kg	PASS
Fe	Iron	199,208 ug/kg	5 ug/kg	-	
Pb	Lead	195 ug/kg	2 ug/kg	500 ug/kg	PASS
Mg	Magnesium	257,582 ug/kg	500 ug/kg	-	
Mn	Manganese	12,083 ug/kg	500 ug/kg	-	
Hg	Mercury	ND	2 ug/kg	1500 ug/kg	PASS
Mo	Molybdenum	58 ug/kg	50 ug/kg	10000 ug/kg	PASS
Ni	Nickel	1,172 ug/kg	50 ug/kg	50000 ug/kg	PASS
P	Phosphorus	ND	500 ug/kg	-	
K	Potassium	10,583,243 ug/kg	5 ug/kg	-	
Se	Selenium	12 ug/kg	10 ug/kg	-	
Ag	Silver	ND	10 ug/kg	-	
S	Sulfur	7,079 ug/kg	5 ug/kg	-	
Sn	Tin	ND	5000 ug/kg	-	
Zn	Zinc	7,386 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: 8/6/2019*

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**60624-MB1**

Symbol	Analysis	Results	Units	Limits*	Status
AC	Total Aerobic Bacterial Count	=330	CFU/g	100,000 CFU/g	PASS
CC	Total Coliform Bacterial Count	<100	CFU/g	1,000 CFU/g	PASS
EB	Total Bile Tolerant Gram Negative Count	<100	CFU/g	1,000 CFU/g	PASS
YM	Total Yeast & Mold	<100	CFU/g	10,000 CFU/g	PASS

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

**MB2: Pathogenic Bacterial Contaminants [WI-10-10]***Analyst: LabAdmin**Test Date: 8/7/2019*

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.

**60624-MB2**

Test ID	Analysis	Results	Units	Limits*	Status
60624-ECPT	E. coli (O157)	Negative	NA	Non Detected	PASS
60624-SPT	Salmonella	Negative	NA	Non Detected	PASS

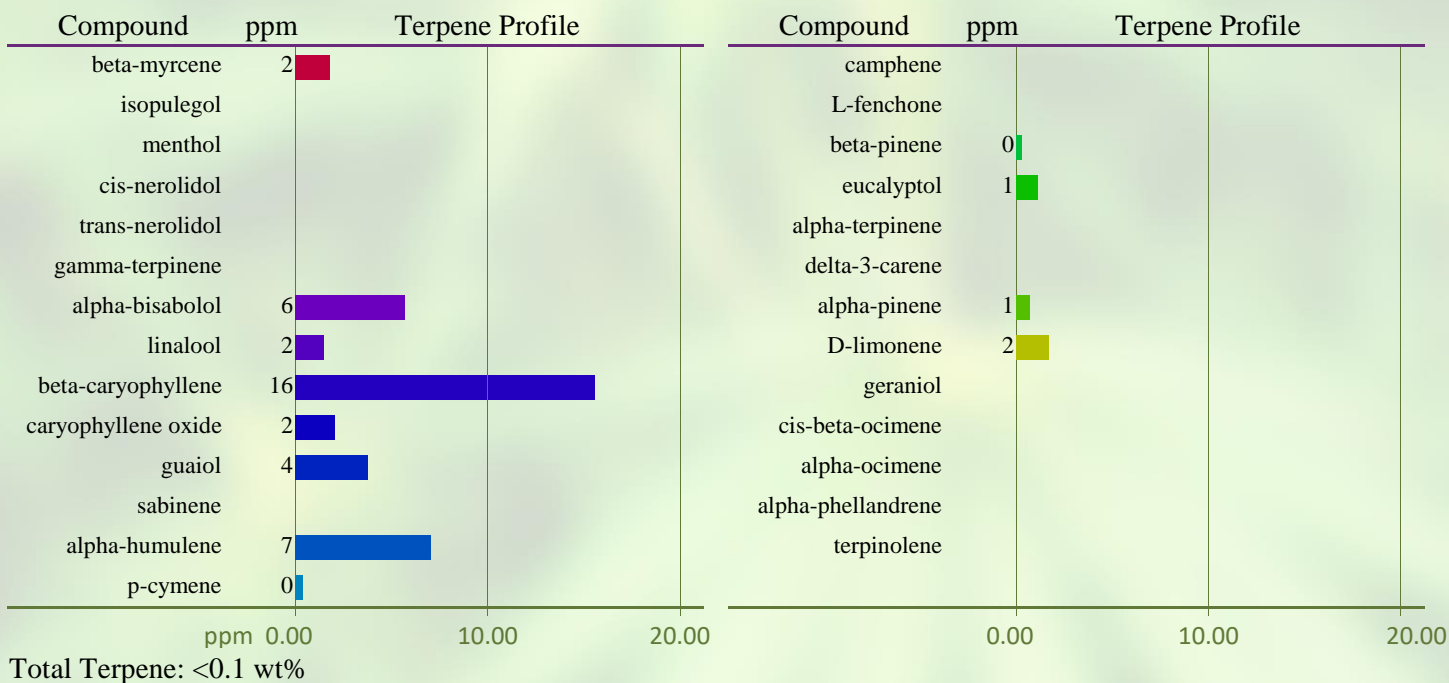
Note: All recorded pathogenic bacteria tests passed.

**TP: Terpenes Profile [WI-10-27]**

Analyst: CMA

Test Date: 8/6/2019

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.

**60624-TP****VC: Analysis of Volatile Organic Compounds [WI-10-28]**

Analyst: CMA

Test Date: 8/6/2019

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.

**60624-VC**

Compound	CAS	Amount <sup>1</sup>	Limit <sup>2</sup>	RL	Status
Propane	74-98-6	ND	1,000 ppm	200	PASS
Isobutane	75-28-5	ND	1,000 ppm	200	PASS
Butane	106-97-8	ND	1,000 ppm	200	PASS
Methanol	67-56-1	ND	3,000 ppm	200	PASS
Pentane	109-66-0	ND	5,000 ppm	200	PASS
Ethanol	64-17-5	291 ppm	5,000 ppm	200	PASS
Acetone	67-64-1	ND	5,000 ppm	200	PASS
Isopropanol	67-63-0	ND	5,000 ppm	200	PASS
Acetonitrile	75-05-8	ND	410 ppm	200	PASS
Hexane	110-54-3	ND	290 ppm	200	PASS
Heptane	142-82-5	ND	5,000 ppm	200	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 on 3/31/16. Butane/Propane limits are based on limits established for state of Colorado.

**END OF REPORT**

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