Certificate ID: 73848

Lot Number: J312

Received: 12/18/19

Client Sample ID: J312I

Matrix: Isolates - CBD

Scan OR Code for authenticity 5 Leaf Labs

3535 S Sherwood Forest Blvd, 251

Baton Rouge, LA 70816

Attn: Keyon Janani

on Podgorne

Authorization:

Signature:

Date:

1/6/2020

Jon Podgorni, Lead Research Chemist







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.

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

Analyst: CJS

Use Limits 2 (ug/kg)

Test Date: 12/23/2019

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.

73848-HM

| | | | | OSC LIII | OSC Limits - (µg/kg) | | |
|--------|---------|-----------------|----|----------|----------------------|--------|--|
| Symbol | Metal | Conc. 1 (µg/kg) | RL | All | Ingestion | Status | |
| As | Arsenic | ND | 50 | 200 | 1500 | PASS | |
| Cd | Cadmium | ND | 50 | 200 | 500 | PASS | |
| Hg | Mercury | ND | 50 | 100 | 1500 | PASS | |
| Pb | Lead | ND | 50 | 500 | 1000 | PASS | |

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

MB1: Microbiological Contaminants [WI-10-09]

Analyst: MM

Test Date: 12/20/2019

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.

73848-MB1

| Symbol | Analysis | Results | Units | Limits* | Status |
|--------|---|---------|-------|---------------|--------|
| AC | Total Aerobic Bacterial Count | <100 | 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.

PST: Pesticide Analysis [WI-10-11]

Analyst: CJR

Test Date: 1/6/2020

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).

73848-PST

| Analyte | CAS | Result | Units | LLD | Limits (ppb) | Status |
|--------------------|-------------|--------|-------|-------|--------------|--------|
| Abamectin | 71751-41-2 | ND | ppb | 0.2 | 100 | PASS |
| Azoxystrobin | 131860-33-8 | ND | ppb | 0.10 | 100 | PASS |
| Bifenazate | 149877-41-8 | ND | ppb | 0.10 | 100 | PASS |
| Bifenthrin | 82657-04-3 | ND | ppb | 0.20 | 3000 | PASS |
| Cyfluthrin | 68359-37-5 | ND | ppb | 0.50 | 2000 | PASS |
| Daminozide | 1596-84-5 | ND | ppb | 10.00 | 10 | * |
| Etoxazole | 153233-91-1 | ND | ppb | 0.10 | 100 | 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 | 5000 | PASS |
| Myclobutanil | 88671-89-0 | ND | ppb | 0.10 | 100 | PASS |
| Paclobutrazol | 76738-62-0 | ND | ppb | 0.10 | 10 | PASS |
| Piperonyl butoxide | 51-03-6 | 170 | ppb | 0.10 | 3000 | PASS |
| Pyrethrin | 8003-34-7 | ND | ppb | 0.1 | 500 | PASS |
| Spinosad | 168316-95-8 | ND | ppb | 0.1 | 100 | PASS |
| Spiromesifen | 283594-90-1 | ND | ppb | 0.10 | 100 | PASS |
| Spirotetramat | 203313-25-1 | ND | ppb | 0.10 | 100 | PASS |
| Trifloxystrobin | 141517-21-7 | ND | ppb | 0.10 | 100 | PASS |

^{*} Testing limits for inhalation 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.

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

Analyst: JR

Test Date: 12/18/2019

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.

73848-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 | ND | 3,000 ppm | 100 | PASS |
| Pentane | 109-66-0 | 1,866 ppm | 5,000 ppm | 100 | PASS |
| Ethanol | 64-17-5 | ND | 5,000 ppm | 100 | * |
| 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).

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.



Certificate ID: 91257

Client Sample ID: **FM0500**Lot Number: **J312I**

Matrix: Topicals - Lotion

Chris Hudalla, Chief Science Officer

Received: 12/31/20



5 Leaf Labs

3535 S Sherwood Forest Blvd., #251

Baton Rouge, LA 70816

Attn: Keyon Janani

Authorization:

zation.

Signature:

Mistophen Hudalla

Date:

1/15/2021







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: JFD

Test Date: 1/4/2021

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.

91257-CN

| ID | Weight % | Concentration (mg/g) | | | | |
|---------|--|--|----|--|------|--|
| D9-THC | ND | ND | | | | |
| THCV | ND | ND | | | | |
| CBD | 1.20 | 12.0 | | | | |
| CBDV | <loq< td=""><td><loq< td=""><td></td><td></td><td></td></loq<></td></loq<> | <loq< td=""><td></td><td></td><td></td></loq<> | | | | |
| 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 | 1.20 | 12.0 | 0% | Cannabinoids (wt%) | 1.2% | |
| Max THC | ND | ND | | Limit of Quantitation (LOQ) = 0.01 | | |
| Max CBD | 1.20 | 12.0 | | Limit of Detection (LOD) = 0.0034 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.

END OF REPORT