



Certificate ID: **59676**

Received: **7/17/19**

Scan QR Code
for authenticity

Zakah Life

Client Sample ID: **ZL 750**



PO BOX 1316

Lot Number: **41519HC25C**

Ankeny, IA 50021

Matrix: **Capsules/Tablets - Capsule**

Attn: Cole Stegman

Authorization:

Jon Podgorni, Lab Manager

Signature:



Date:

7/29/2019



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: 7/24/2019

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.

59676-CN

| ID | Weight % | Concentration (mg/CAP) | | |
|--------------|-------------|------------------------|-----------|--------------------------------|
| D9-THC | 0.09 | 0.79 | | |
| THCV | ND | ND | | |
| CBD | 2.66 | 23.23 | | |
| CBDV | 0.02 | 0.15 | | |
| CBG | 0.11 | 0.93 | | |
| CBC | 0.15 | 1.28 | | |
| CBN | 0.00 | 0.03 | | |
| THCA | ND | ND | | |
| CBDA | ND | ND | | |
| CBGA | ND | ND | | |
| D8-THC | ND | ND | | |
| exo-THC | ND | ND | | |
| Total | 3.03 | 26.41 | 0% | Cannabinoids (wt%) 2.7% |
| Max THC | 0.09 | 0.79 | | |
| Max CBD | 2.66 | 23.23 | | |

Ratio of Total CBD to THC 29.5:1

Limit of Quantitation (LOQ) = 0.0091 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: 7/26/2019

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.

59676-EA

| Symbol | Metal | Conc. ¹ | MDL | Limits ² | Status |
|--------|------------|--------------------|------------|---------------------|--------|
| Al | Aluminum | 678 ug/kg | 5 ug/kg | - | |
| As | Arsenic | ND | 4 ug/kg | 150 ug/kg | PASS |
| Cd | Cadmium | ND | 1 ug/kg | 150 ug/kg | PASS |
| Ca | Calcium | 4,855 ug/kg | 500 ug/kg | - | |
| Cr | Chromium | ND | 5 ug/kg | 2500 ug/kg | PASS |
| Co | Cobalt | ND | 10 ug/kg | - | |
| Cu | Copper | ND | 500 ug/kg | 10000 ug/kg | PASS |
| Fe | Iron | 609 ug/kg | 5 ug/kg | - | |
| Pb | Lead | 2 ug/kg | 2 ug/kg | 500 ug/kg | PASS |
| Mg | Magnesium | 2,893 ug/kg | 500 ug/kg | - | |
| Mn | Manganese | ND | 500 ug/kg | - | |
| Hg | Mercury | ND | 2 ug/kg | 150 ug/kg | PASS |
| Mo | Molybdenum | ND | 50 ug/kg | 1000 ug/kg | PASS |
| Ni | Nickel | ND | 50 ug/kg | 150 ug/kg | PASS |
| P | Phosphorus | ND | 500 ug/kg | - | |
| K | Potassium | 2,730 ug/kg | 5 ug/kg | - | |
| Se | Selenium | ND | 10 ug/kg | - | |
| Ag | Silver | ND | 10 ug/kg | - | |
| S | Sulfur | ND | 5 ug/kg | - | |
| Sn | Tin | ND | 5000 ug/kg | - | |
| Zn | Zinc | 281 ug/kg | 5 ug/kg | - | |

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

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

MB1: Microbiological Contaminants [WI-10-09]

Analyst: MM

Test Date: 7/19/2019

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.

59676-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.

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

Analyst: LabAdmin

Test Date: 7/20/2019

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.

59676-MB2

| Test ID | Analysis | Results | Units | Limits* | Status |
|------------|----------------|----------|-------|--------------|--------|
| 59676-ECPT | E. coli (O157) | Negative | NA | Non Detected | PASS |
| 59676-SPT | Salmonella | Negative | NA | Non Detected | PASS |

Note: All recorded pathogenic bacteria tests passed.

MY: Mycotoxin Testing [WI-10-05]

Analyst: CJB

Test Date: 7/18/2019

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.

59676-MY

| Test ID | Date | Results | MDL | Limits | Status* |
|------------------|-----------|---------|-------|----------|---------|
| Total Aflatoxin | 7/18/2019 | < MDL | 2 ppb | < 20 ppb | PASS |
| Total Ochratoxin | 7/18/2019 | < MDL | 3 ppb | < 20 ppb | PASS |

PST: Pesticide Analysis [WI-10-11]

Analyst: RAS

Test Date: 7/29/2019

The client sample was analyzed 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).

59676-PST

| Analyte | CAS | Result | Units | LLD | Limits (ppb) | Status |
|--------------------|-------------|--------|-------|-------|--------------|--------|
| Abamectin B1a | 65495-55-3 | ND | ppb | 0.20 | 300 | PASS |
| Abamectin B1b | 65195-56-4 | ND | ppb | 0.20 | 300 | PASS |
| 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 | PASS |
| Spinosad | 168316-95-8 | ND | ppb | 0.1 | 3000 | PASS |
| Spiromesifen | 283594-90-1 | ND | ppb | 0.10 | 12000 | PASS |
| 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.

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

Analyst: CMA

Test Date: 7/19/2019

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.

59676-VC

| Compound | CAS | Amount ¹ | Limit ² | 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 | ND | 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