

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. In addition to compounds reported here, multiple cannabinoid isomers or byproducts, which do not occur naturally, were observed in this sample and cannot be identified. No toxicity data is available for these unknown compounds, and as such would not be recommended for human consumption. As non-natural synthetic cannabinoids, these would not be exempted from the Controlled Substance Act (CSA).

### 118597-CN

| 1100// 011    |          |                      |    |                               |            |
|---------------|----------|----------------------|----|-------------------------------|------------|
| ID            | Weight % | Concentration (mg/g) |    |                               |            |
| <b>Δ9-THC</b> | ND       | ND                   |    |                               |            |
| THCV          | ND       | ND                   |    |                               |            |
| CBD           | ND       | ND                   |    |                               |            |
| CBDV          | ND       | ND                   |    |                               |            |
| CBG           | ND       | ND                   |    |                               |            |
| CBC           | ND       | ND                   |    |                               |            |
| CBN           | ND       | ND                   |    |                               |            |
| THCA          | ND       | ND                   |    |                               |            |
| CBDA          | ND       | ND                   |    |                               |            |
| CBGA          | ND       | ND                   |    |                               |            |
| ∆8-THC        | 0.202    | 2.02                 |    |                               |            |
| exo-THC       | ND       | ND                   |    |                               |            |
| Total         | 0.202    | 2.02                 | 0% | Cannabinoids (wt%)            | 0.202%     |
| Max THC       | ND       | ND                   |    | Limit of Quantitation (LOQ) = | 0.0068 wt% |
| Max CBD       | ND       | ND                   |    | Limit of Detection (LOD) =    | 0.0023 wt% |
|               |          |                      |    |                               |            |

### **Ratio of Total CBD to THC** 1:1

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 =  $(0.877 \times THCA) + THC$ . 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 Limit of Quantification (LOQ). For values reported as "<LOQ", the estimated value is included in the calculated Total.

### 420 Fortune Blvd • Milford, MA 01757 • 617-221-3356 www.ProVerdeLabs.com

Certificate ID: 118597

Vance Global HHC Gummies

| HHC: Analysis of Hexahydrocann   | abinol    | Analyst: JFL      | D Test Date: 08/14/2023 |  |  |  |  |
|--|-----------|-------------------|-------------------------|--|--|--|--|
| This sample was analyzed using Liquid Chromatography (LC) with PDA detection. The collected data was compared with a single point calibration, with estimated concentration reported based on relative response. |           |                   |                         |  |  |  |  |
| 118597-HHC   |           |                   |                         |  |  |  |  |
| Compound   | CAS       | Amount (Weight %) | Concentration (mg/g)    |  |  |  |  |
| ННС  | 6692-85-9 | 5.21              | 52.1                    |  |  |  |  |

ND=Not Detected at a level less than LOD. This method is outside Proverde Laboratories ISO 17025:2017 Scope of Acceditation.

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|  | HM: Heavy Metal Analysis [WI-10-13] | Analyst: CJS | Test Date: 08/14/2023 |
|--|-------------------------------------|--------------|-----------------------|
|--|-------------------------------------|--------------|-----------------------|

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.

| 118597-НМ |         |                                  |      | Use Lim | its <sup>2</sup> ( $\mu$ g/kg) |        |
|-----------|---------|----------------------------------|------|---------|--------------------------------|--------|
| Symbol    | Metal   | Conc. <sup>1</sup> ( $\mu$ g/kg) | RL   | All     | Ingestion                      | Status |
| As        | Arsenic | ND                               | 50.0 | 200     | 1,500                          | PASS   |
| Cd        | Cadmium | ND                               | 50.0 | 200     | 500                            | PASS   |
| Hg        | Mercury | ND                               | 50.0 | 100     | 1,500                          | PASS   |
| Pb        | Lead    | ND                               | 50.0 | 500     | 1,000                          | PASS   |

1) ND = None detected above the indicated Reporting Limit (RL)

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: 08/14/2023 |
|--|-------------|-----------------------|
|--|-------------|-----------------------|

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.

### 118597-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   |

Recommended limits established by the American Herbal Pharmacopoeia (AHP) monograph for Cannabis Inflorescence [2013], for consumable botanical products, including processed and unprocessed cannabis materials, and solvent-based extracts. Note: All recorded Microbiological tests are within the established limits.

# MY: Mycotoxin Testing [WI-10-05]

Analyst: BMJ Test Date: 08/14/2023

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.

### 118597-MY

| Test ID          | Date       | Results | MDL   | Limits   | Status* |  |
|------------------|------------|---------|-------|----------|---------|--|
| Total Aflatoxin  | 11/15/2022 | < MDL   | 2 ppb | < 20 ppb | PASS    |  |
| Total Ochratoxin | 11/15/2022 | < MDL   | 3 ppb | < 20 ppb | PASS    |  |

| PST: Pesticide Analysis [WI-10-11] Analyst: CJR Test Date: 08/14/202 | PST: Pesticide Analysis [WI-10-11] | Analyst: CJR | Test Date: 08/14/2023 |
|--|------------------------------------|--------------|-----------------------|
|--|------------------------------------|--------------|-----------------------|

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).

# 118597-PST

| Analyte           | CAS         | Result | Units | LLD  | Limits (ppb) | Status |
|-------------------|-------------|--------|-------|------|--------------|--------|
| Abamectin         | 71751-41-2  | ND     | ppb   | 0.20 | 10           | PASS   |
| Spinosad          | 168316-95-8 | ND     | ppb   | 0.10 | 10           | PASS   |
| Pyrethrin         | 8003-34-7   | ND     | ppb   | 0.10 | 10           | PASS   |
| Trifloxystrobin   | 141517-21-7 | ND     | ppb   | 0.10 | 100          | PASS   |
| Spirotetramat     | 203313-25-1 | ND     | ppb   | 0.10 | 100          | PASS   |
| Spiromesifen      | 283594-90-1 | ND     | ppb   | 0.10 | 100          | PASS   |
| Piperonyl butoxid | e 51-03-6   | ND     | ppb   | 0.10 | 3000         | PASS   |
| Paclobutrazol     | 76738-62-0  | ND     | ppb   | 0.10 | 10           | PASS   |
| Myclobutanil      | 88671-89-0  | ND     | ppb   | 0.10 | 100          | PASS   |
| Imidacloprid      | 138261-41-3 | ND     | ppb   | 0.10 | 5000         | PASS   |
| Imazalil          | 35554-44-0  | ND     | ppb   | 0.10 | 10           | PASS   |
| Fenoxycarb        | 72490-01-8  | ND     | ppb   | 0.10 | 10           | PASS   |
| Etoxazole         | 153233-91-1 | ND     | ppb   | 0.10 | 100          | PASS   |
| Dichlorvos        | 62-73-7     | ND     | ppb   | 3.00 | 10           | PASS   |
| Cyfluthrin        | 68359-37-5  | ND     | ppb   | 0.50 | 2000         | PASS   |
| Bifenthrin        | 82657-04-3  | ND     | ppb   | 0.20 | 3000         | PASS   |
| Bifenazate        | 149877-41-8 | ND     | ppb   | 0.10 | 100          | PASS   |
| Azoxystrobin      | 131860-33-8 | ND     | ppb   | 0.10 | 100          | 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 due to matrix interference. Certificate ID: 118597

| VC: Analysis of Volatile Organic Compounds [WI-10-28] | Analyst: CJS | Test Date: 08/14/2023 |
|---|--------------|-----------------------|
|---|--------------|-----------------------|

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.

## 118597-VC

| Compound     | CAS      | Amount <sup>1</sup> | Limit <sup>2</sup> | 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 | ND                  | 5,000 ppm          | 100 | PASS   |
| Ethanol      | 64-17-5  | ND                  | 5,000 ppm          | 100 | PASS   |
| 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).

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.

# **END OF REPORT**