

### **Analytical Test Report**

| Client:                  | Final Report  | PHR-S2001828 Rev.01.00 | Laboratory:                 |
|--------------------------|---------------|------------------------|-----------------------------|
| PJ Smith Enterprises LLC |               |                        | PHR Labs, LLC               |
|                          |               |                        | 2020 Downyflake Lane, Suite |
|                          | Report Date:  | 15 MAY 2020            | 301                         |
|                          | . topon zato. |                        | Allentown, PA 18103         |
|                          |               |                        | 215-220-9981                |
|                          |               |                        |                             |
|                          |               |                        |                             |

| Sample ID #       | Sample Name | Batch | Matrix      | Date<br>Received | Date Tested    | Sample Weight |
|-------------------|-------------|-------|-------------|------------------|----------------|---------------|
| PHR-S20-<br>01828 | CBD extract | J-20  | Concentrate | 12 May 2020      | 12-15 May 2020 | 12.68 g       |

The test results presented in this report are accurate, complete, and compliant with the PHR Labs quality control criteria.

Authorization

This test is accredited under the laboratory's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board. Refer

Corey Fitze
Chief Operating Officer

to certificate and scope of accreditation AT-2685.01.



#### **Case Narrative:**

For cannabinoids, the sample was extracted using organic solvents and analyzed via High Performance Liquid Chromatography (HPLC-UV). For microbiological contaminants, the sample was prepared using cultured enrichments, was incubated for set periods of time, and analyzed via an automated Most Probable Number (MPN) methodology. For pathogenic bacterial contaminants, the sample was prepared using cultured enrichments, was incubated for set periods of time, and analyzed via an automated Enzyme Linked Fluorescent Assay (ELFA). For mycotoxin and pesticide contaminants, the sample was extracted using organic solvents, and analyzed via Liquid Chromatography - Tandem Mass Spectrometry (LC-MS/MS). For heavy metals, the sample was extracted using nitric acid and microwave digestion, and analyzed via Inductively Coupled Plasma Mass Spectrometry (ICP-MS). For volatile organic compounds, the sample was analyzed via Gas Chromatography – Flame Ionization Detection with Headspace Autosampler (GC-FID) using full evaporative technique. The collected data was compared to data collected from analytical reference standards at known concentrations. Total pesticide level exceeded regulatory limits. Values reported below quantitation limits are for informational purposes.

This report and all information herein shall not be reproduced, except in its entirety, without the expressed consent of PHR Labs. Results apply only to the sample supplied to PHR Labs.

### **Requested Testing:**

| Test                        | Code | Procedure   | Analytes Tested  |
|-----------------------------|------|-------------|--|
| Cannabinoid Profile         | CN   | PHR-TM-0002 | CBGA, CBG, THCA, Δ9-THC, Δ8-THC, CBDA, CBD, CBNA, CBN, CBCA, CBC, CBLA, CBL, CBDVA, CBDV, THCVA, THCV  |
| Microbiological Screen      | MB   | PHR-TM-0001 | Bacterial (Total Aerobic, Total Coliform, Bile-Tolerant<br>Gram Negative), Yeast and Mold, Pathogenic (E. coli,<br>Salmonella)   |
| Mycotoxin Screen            | MY   | PHR-TM-0005 | Aflatoxin B1, Aflatoxin B2, Aflatoxin G1, Aflatoxin G2, Ochratoxin A   |
| Heavy Metals Screen         | НМ   | PHR-TM-0006 | Arsenic (As), Cadmium (Cd), Lead (Pb), Mercury (Hg)  |
| Volatile Organics<br>Screen | VC   | PHR-TM-0004 | n-Butane,Ethanol   |
| Pesticides Screen           | PS   | PHR-TM-0005 | Cyfluthrin, Hexythiazox, Piperonyl Butoxide, Acephate, Cypermethrin, Imazalil, Imidacloprid, Propiconazole, Acetamiprid, DDVP, Propoxur, Aldicarb, Malathion, Pyridaben, Azoxystrobin, Dimethoate, Metalaxyl, Methiocarb, Bifenthrin, Ethoprophos, Methomyl, Spiromesifen, Etofenprox, Spirotetramat, Carbaryl, Etoxazole, Mgk-264, Spiroxamine, Carbofuran, Myclobutanil, Tebuconazole, Captan, Fenoxycarb, Naled, Thiacloprid, Chlorantraniliprole, Fenpyroximate, Oxamyl, Thiamethoxam, Trifloxystrobin, Chlorpyrifos, Flonicamid, Permethrins, Clofentezine, Fludioxonil |
| Terpene Screen              | TP   | PHR-TM-0003 | α-Pinene, Camphene, β-Myrcene, β-Pinene, δ-3-Carene, α- Terpinene, Ocimene, δ-Limonene, p-Cymene, β-Ocimene, Eucalyptol, γ-Terpinene, Terpinolene, Linalool, Isopulegol, Geraniol, β-Caryophyllene, α-Humulene, Nerolidol 1, Nerolidol 2, Guaiol, Caryophyllene Oxide, α-Bisabolol   |

2020 Downyflake Lane
PCR-FRM-0072 Rev 0001 Allentown, PA 18103 2/13

Cannabinoid Profile [PCR-TM-0002]

Analyst: JA

Test Date: 12 May 20

The sample was analyzed for cannabinoids via High Performance Liquid Chromatography (HPLC-UV). The collected data was compared to data collected from certified analytical reference standards at known concentrations.

Table. 1. 20-01828 CBD extract J-20 Concentrate Cannabinoid Testing

| Analyte | Cannabinoid                   | Conc.<br>(weight %) | Conc.<br>(mg/g) | LOQ<br>(weight %) | LOD<br>(weight %) |
|---------|-------------------------------|---------------------|-----------------|-------------------|-------------------|
| CBDVA   | Cannabidivarinic acid         | ND                  | ND              | 0.001             | 0.000             |
| CBDV    | Cannabidivarin                | 0.3%                | 2.53            | 0.001             | 0.000             |
| CBDA    | Cannabidiolic acid            | 0.3%                | 3.23            | 0.001             | 0.000             |
| CBGA    | Cannabigerolic acid           | ND                  | ND              | 0.001             | 0.000             |
| CBG     | Cannabigerol                  | 1.1%                | 11.04           | 0.001             | 0.000             |
| CBD     | Cannabidiol                   | 61.8%               | 617.63          | 0.001             | 0.000             |
| THCV    | Tetrahydrocannabivarin        | 0.2%                | 1.75            | 0.001             | 0.000             |
| THCVA   | Tetrahydrocannabivarinic acid | ND                  | ND              | 0.001             | 0.000             |
| CBN     | Cannabinol                    | BQL                 | BQL             | 0.001             | 0.000             |
| CBNA    | Cannabinolic acid             | ND                  | ND              | 0.001             | 0.000             |
| Δ9-ΤΗС  | Δ9-Tetrahydrocannabinol       | 2.6%                | 26.40           | 0.001             | 0.001             |
| Δ8-ΤΗС  | Δ8-Tetrahydrocannabinol       | ND                  | ND              | 0.001             | 0.000             |
| CBL     | Cannabicyclol                 | BQL                 | BQL             | 0.001             | 0.000             |
| CBC     | Cannabichromene               | 2.6%                | 25.90           | 0.001             | 0.000             |
| THCA    | Tetrahydrocannabinolic acid   | ND                  | ND              | 0.001             | 0.000             |
| CBCA    | Cannabichromenic acid         | 0.7%                | 7.33            | 0.005             | 0.000             |
| CBLA    | Cannabicyclolic acid          | ND                  | ND              | 0.001             | 0.000             |

**Note**: ND = Not Detected; LOQ = Limit of Quantitation; LOD = Limit of Detection; BQL = Below Quantitation Limit.

Microbiological Screen [PCR-TM-0001] Analyst: EB Test Date: 12-15 May 20

The sample was analyzed for microbiological contaminants via an automated Most Probable Number (MPN) methodology with cultured enrichments.

Table. 2. 20-01828 CBD extract J-20 Concentrate Microbiological Testing

| Test ID     | Test Analysis                                    | Results                | Unit  |
|-------------|--|------------------------|-------|
| 20-01828-AC | Total Viable<br>Aerobic Bacteria                 | <100                   | CFU/g |
| 20-01828-YM | YM Total Yeast and Mold <100                     |                        | CFU/g |
| 20-01828-CC | Total Coliforms                                  | Not Teste <sup>d</sup> | CFU/g |
| 20-01828-EB | Total Bile-Tolerant<br>Gram Negative<br>Bacteria | <100                   | CFU/g |

**Note**: CFU = colony forming unit.

2020 Downyflake Lane
PCR-FRM-0072 Rev 0001 Allentown, PA 18103 4/13

| Pathogenic Bacterial Screen [PCR-TM-0001] | Analyst: JA | Test Date: 13 May 20 |
|---|-------------|----------------------|

The sample was analyzed for pathogenic bacterial contamination via an automated Enzyme Linked Fluorescent Assay (FLFA)

Table. 3. 20-01828 CBD extract J-20 Concentrate Pathogen Testing

| Test ID       | Test Analysis  | Result       | Units |
|---------------|----------------|--------------|-------|
| 20-01828-ECPT | E. coli (0157) | Not Detected | N/A   |
| 20-01828-SPT  | Salmonella     | Not Detected | N/A   |

| Mycotoxin Screen [PCR-TM-0005] | Analyst: AP | Test Date: 14 May 20 |
|--------------------------------|-------------|----------------------|
|--------------------------------|-------------|----------------------|

The sample was analyzed via Liquid Chromatography - Tandem Mass Spectrometry (LC-MS/MS).

Table. 4. 20-01828 CBD extract J-20 Concentrate Mycotoxin Testing

| Test ID     | Test Analysis | Result | LOD<br>(ppb) | LOQ<br>(ppb) |
|-------------|---------------|--------|--------------|--------------|
| 20-01828-MY | Aflatoxin B1  | ND     | 1            | 3.3          |
| 20-01828-MY | Aflatoxin B2  | ND     | 1.9          | 6.3          |
| 20-01828-MY | Aflatoxin G1  | ND     | 1.2          | 4            |
| 20-01828-MY | Aflatoxin G2  | ND     | 1.1          | 3.6          |
| 20-01828-MY | Ochratoxin A  | ND     | 2.3          | 7.6          |
| 20-01828-MY | Total         | 0      | N/A          | N/A          |

**Note**: ND = Not Detected; LOD = Limit of Detection; LOQ = Limit of Quantitation; ppb = parts per billion.

The collected data was compared to data collected from analytical reference standards at known concentrations.

| Haavay | Matala | Caraan | IPCR-TM-00061   |
|--------|--------|--------|-----------------|
| neavv  | wetais | Screen | IPCR-IIVI-UUUDI |

Analyst: JA

Test Date: 12 May 20

The sample was analyzed via Inductively Coupled Plasma Mass Spectrometry. The collected data was compared to data collected from certified analytical reference standards at known concentrations.

Table. 5. 20-01828 CBD extract J-20 Concentrate Heavy Metal Testing

| Test ID     | Test Analysis | Result<br>(ppm) | LOD<br>(ppm) | LOQ<br>(ppm) |
|-------------|---------------|-----------------|--------------|--------------|
| 20-01828-HM | Arsenic (As)  | ND              | 0.042        | 0.127        |
| 20-01828-HM | Cadmium (Cd)  | ND              | 0.038        | 0.114        |
| 20-01828-HM | Mercury (Hg)  | ND              | 0.022        | 0.066        |
| 20-01828-HM | Lead (Pb)     | ND              | 0.021        | 0.063        |

**Note**: ND = Not Detected; LOD = Limit of Detection; LOQ = Limit of Quantitation; BQL = Below Quantitation Limit; ppm = parts per million.

## VC Screen [PCR-TM-0004]

Analyst: JJ

Test Date: 14 May 20

The sample was analyzed via Gas Chromatography – Flame Ionization Detection with Headspace Autosampler. The collected data was compared to data collected from certified analytical reference standards at known concentrations.

Table. 6. 20-01828 CBD extract J-20 Concentrate Residual Solvent Testing

| Test ID     | Analyte  | Result<br>(ppm) | LOD<br>(ppm) | LOQ<br>(ppm) |
|-------------|----------|-----------------|--------------|--------------|
| 20-01828-VC | n-Butane | ND              | 772.3        | 2574         |
| 20-01828-VC | Ethanol  | ND              | 491.0        | 1637         |

**Note:** ND = Not Detected; LOD = Limit of Detection; LOQ = Limit of Quantitation; BQL = Below Quantitation Limit; ppm = parts per million.

Pesticides Screen [PCR-TM-0005]

Analyst: EB

Test Date: 14 May 20

The sample was analyzed via Liquid Chromatography - Tandem Mass Spectrometry (LC-MS/MS).

The collected data was compared to data collected from analytical reference standards at known concentrations.

Table. 7. 20-01828 CBD extract J-20 Concentrate Pesticide Testing

| Table. 7. 20-018   |                  |               |               |
|--------------------|------------------|---------------|---------------|
| Test<br>Analysis   | Result<br>(µg/g) | LOD<br>(µg/g) | LOQ<br>(µg/g) |
| Cyfluthrin         | ND               | 0.1666        | 0.5498        |
| Hexythiazox        | ND               | 0.0204        | 0.0673        |
| Piperonyl Butoxide | ND               | 0.015         | 0.0494        |
| Acephate           | ND               | 0.0196        | 0.0648        |
| Cypermethrin       | ND               | 0.0341        | 0.1124        |
| Imazalil           | ND               | 0.0079        | 0.0259        |
| Imidacloprid       | ND               | 0.0347        | 0.1144        |
| Propiconazole      | ND               | 0.0157        | 0.0519        |
| Acetamiprid        | ND               | 0.0087        | 0.0288        |
| DDVP               | ND               | 0.0217        | 0.0716        |
| Propoxur           | ND               | 0.0198        | 0.0653        |
| Aldicarb           | ND               | 0.0133        | 0.0439        |
| Malathion          | ND               | 0.0199        | 0.0658        |
| Pyridaben          | ND               | 0.0145        | 0.0477        |
| Azoxystrobin       | ND               | N/A           | 0.05          |
| Dimethoate         | ND               | 0.0149        | 0.0491        |
| Metalaxyl          | ND               | 0.0139        | 0.0459        |
| Methiocarb         | ND               | 0.0139        | 0.0458        |
| Bifenthrin         | ND               | 0.035         | 0.1154        |
| Ethoprophos        | ND               | 0.0188        | 0.0622        |
| Methomyl           | ND               | 0.0157        | 0.0519        |
| Spiromesifen       | ND               | 0.0255        | 0.0842        |
| Etofenprox         | ND               | 0.0145        | 0.048         |

| Test<br>Analysis    | Result<br>(µg/g) | LOD<br>(µg/g) | LOQ<br>(µg/g) |
|---------------------|------------------|---------------|---------------|
| Spirotetramat       | ND               | 0.0145        | 0.0842        |
| Carbaryl            | ND               | 0.0146        | 0.048         |
| Etoxazole           | ND               | 0.0112        | 0.0482        |
| Mgk-264             | ND               | 0.0113        | 0.037         |
| Spiroxamine         | N/A              | 0.1059        | 0.0372        |
| Carbofuran          | ND               | 0.019         | 0.3493        |
| Myclobutanil        | ND               | 0.0146        | 0.0627        |
| Tebuconazole        | ND               | 0.0148        | 0.0481        |
| Captan              | ND               | 0.017         | 0.049         |
| Fenoxycarb          | ND               | N/A           | 0.0562        |
| Naled               | ND               | 0.0087        | N/A           |
| Thiacloprid         | ND               | 0.0066        | 0.0288        |
| Chlorantraniliprole | ND               | 0.0129        | 0.0217        |
| Fenpyroximate       | ND               | 0.0147        | 0.0428        |
| Oxamyl              | ND               | 0.0063        | 0.0484        |
| Thiamethoxam        | ND               | 0.0162        | 0.0207        |
| Trifloxystrobin     | ND               | 0.0116        | 0.0534        |
| Chlorpyrifos        | ND               | 0.0179        | 0.0384        |
| Flonicamid          | ND               | 0.0164        | 0.0591        |
| Permethrins         | ND               | 0.0095        | 0.054         |
| Clofentezine        | ND               | N/A           | 0.0313        |
| Fludioxonil         | ND               | 0.0205        | 0.05          |

**Note:** ND = Not Detected; LOD = Limit of Detection; LOQ = Limit of Quantitation; ppb = parts per billion; N/A = not available.

| Terpene Profile [PCR-TM-0003] | Analvst: JJ | Test Date: 13 May 20 |
|-------------------------------|-------------|----------------------|

The sample was analyzed via Gas Chromatography – Flame Ionization Detection with Headspace Autosampler. The collected data was compared to data collected from certified analytical reference standards at known concentrations.

Table. 8. 20-01828 CBD extract J-20 Concentrate TerpeneTesting

| Terpene             | Test Result |  |
|---------------------|-------------|--|
| α-Pinene            | ND          |  |
| Camphene            | ND          |  |
| β-Myrcene           | ND          |  |
| β-Pinene            | ND          |  |
| δ 3-Carene          | ND          |  |
| α-Terpinene         | ND          |  |
| Ocimene             | ND          |  |
| δ-Limonene          | ND          |  |
| p-Cymene            | ND          |  |
| β-Ocimene           | ND          |  |
| Eucalyptol          | ND          |  |
| γ-Terpinene         | 0.03%       |  |
| Terpinolene         | ND          |  |
| Linalool            | 0.04%       |  |
| Isopulegol          | ND          |  |
| Geraniol            | ND          |  |
| β-Caryophyllene     | 0.52%       |  |
| α-Humulene          | 0.16%       |  |
| Nerolidol 1         | ND          |  |
| Nerolidol 2         | 0.05%       |  |
| Guaiol              | 0.13%       |  |
| Caryophyllene Oxide | ND          |  |
| α-Bisabolol         | 0.12%       |  |
| Sum                 | 1.05%       |  |

**Note**: ND = Not Detected.

## QA/QC

PCR-FRM-0072 Rev 0001

| Cannabinoid Profile [PCR-TM-0002] | Analyst: MD | Test Date: 12 May 20 |
|-----------------------------------|-------------|----------------------|

The sample data for certified reference standards was collected at known concentrations of cannabinoids in solution.

# QC-0.05 mg/mL 17 cannabinoid multi-component 43921

| ID     | Cannabinoid                   | Nominal Prep Conc<br>(mg/mL) | Measured Conc.<br>(mg/mL) | Recovery<br>(%) |
|--------|-------------------------------|------------------------------|---------------------------|-----------------|
| CBDVA  | Cannabidivarinic acid         | 0.05                         | 0.047                     | 94%             |
| CBDV   | Cannabidivarin                | 0.05                         | 0.049                     | 98%             |
| CBDA   | Cannabidiolic acid            | 0.05                         | 0.053                     | 106%            |
| CBGA   | Cannabigerolic acid           | 0.05                         | 0.049                     | 98%             |
| CBG    | Cannabigerol                  | 0.05                         | 0.050                     | 99%             |
| CBD    | Cannabidiol                   | 0.05                         | 0.052                     | 104%            |
| THCV   | Tetrahydrocannabivarin        | 0.05                         | 0.051                     | 101%            |
| THCVA  | Tetrahydrocannabivarinic acid | 0.05                         | 0.047                     | 94%             |
| CBN    | Cannabinol                    | 0.05                         | 0.051                     | 102%            |
| CBNA   | Cannabinolic acid             | 0.05                         | 0.047                     | 94%             |
| Δ9-THC | Δ9-Tetrahydrocannabinol       | 0.05                         | 0.051                     | 101%            |
| Δ8-THC | Δ8-Tetrahydrocannabinol       | 0.05                         | 0.048                     | 96%             |
| CBL    | Cannabicyclol                 | 0.05                         | 0.048                     | 96%             |
| CBC    | Cannabichromene               | 0.05                         | 0.049                     | 98%             |
| THCA   | Tetrahydrocannabinolic acid   | 0.05                         | 0.052                     | 104%            |
| CBCA   | Cannabichromenic acid         | 0.05                         | 0.049                     | 98%             |
| CBLA   | Cannabicyclolic acid          | 0.05                         | 0.046                     | 91%             |

Criteria for successful analysis is QC recovery to be ≤20% above or below nominal.

| Microbiological Screen [PCR-TM-0001] | Analyst: JA | Test Date: |
|--------------------------------------|-------------|------------|

Quality control checks are performed to confirm that the equipment used for reading incubated microbiological cultures, which are done at various concentrations, are working correctly and that the fluorescence readings are accurate. QC checks are performed within 30 days of the recorded measurements.

Pass

| Date of most recent QC check: |  |
|-------------------------------|--|
| Status:                       |  |

2020 Downyflake Lane

Allentown, PA 18103

9/13

Pathogenic Bacterial Screen [PCR-TM-0001]

Analyst: AP

Test Date: 30 Apr 20

Quality control checks are performed to validate the equipment used for reading incubated pathogenic bacterial cultures. E. coli QC checks are run at least every 14 days. Salmonella QC checks are run every 28 days.

| Date      | QC Check    | Pathogen       | Result   | Disposition |
|-----------|-------------|----------------|----------|-------------|
| 5/5/2020  | Control (+) | E. coli (0157) | Positive | Pass        |
| 5/5/2020  | Control (-) | E. coli (0157) | Negative | Pass        |
| 5/5/2020  | Standard 1  | E. coli (0157) | N/A      | N/A         |
| 5/5/2020  | Standard 2  | E. coli (0157) | N/A      | N/A         |
| 4/30/2020 | Control (+) | Salmonella     | Positive | Pass        |
| 4/30/2020 | Control (-) | Salmonella     | Negative | Pass        |
| 4/30/2020 | Standard 1  | Salmonella     | N/A      | N/A         |
| 4/30/2020 | Standard 2  | Salmonella     | N/A      | N/A         |

Mycotoxin Screen [PCR-TM-0005]

Analyst: AP

Test Date: 14 May 20

Solutions were spiked with toxin reference materials at given concentrations and tested for toxin presence.

| QC Sample               | Total Toxins<br>(ppb) | Result   |
|-------------------------|-----------------------|----------|
| Negative Control        | 0                     | Negative |
| Positive Control 20 ppb | 20.0                  | Positive |

Heavy Metals Screen [PCR-TM-0006]

Analyst: JA

Test Date: 12 May 20

QC samples were prepared at target concentrations and injected at the end of the sequence.

| Analyte      | Prepared analyte<br>concentration<br>(ppb) | Analyte measured (ppb) | QC recovery<br>(%) |
|--------------|--|------------------------|--------------------|
| Arsenic (As) | 2.00                                       | 2.36                   | 118%               |
| Cadmium (Cd) | 2.00                                       | 2.3                    | 115%               |
| Mercury (Hg) | 0.50                                       | 2                      | 100%               |
| Lead (Pb)    | 6.00                                       | 5.86                   | 98%                |

Criteria for successful analysis is QC recovery to be ≤20% above or below nominal.

VC Screen [PCR-TM-0004]

Analyst: JJ

Test Date: 13 May 20

A QC sample was prepared at a known concentration and injected.

| Analyte | Analyte detected (ppm) | Nominal analyte (ppm) | Recovery<br>(%) |
|---------|------------------------|-----------------------|-----------------|
| Ethanol | 101                    | 100                   | 101%            |

Criteria for successful analysis is QC recovery to be ≤30% above or below nominal.

2020 Downyflake Lane
PCR-FRM-0072 Rev 0001 Allentown, PA 18103 11/13

| Pesticides Screen [PCR-TM-0005] | Analyst: EB | AII | Test Date: 14 May 20 |
|---------------------------------|-------------|-----|----------------------|

QC samples were prepared at target concentrations and injected at the end of the sequence.

| Test Analysis      | Prepared analyte<br>concentration<br>(μg/g) | Result   | Test Analysis       | Prepared analyte<br>concentration<br>(μg/g) | Result   |
|--------------------|---|----------|---------------------|---|----------|
| Cyfluthrin         | 0.1500                                      | Detected | Spirotetramat       | 0.1500                                      | Detected |
| Hexythiazox        | 0.1500                                      | Detected | Carbaryl            | 0.1500                                      | Detected |
| Piperonyl Butoxide | 0.1500                                      | Detected | Etoxazole           | 0.1500                                      | Detected |
| Acephate           | 0.1500                                      | Detected | Mgk-264             | 0.1500                                      | Detected |
| Cypermethrin       | 0.1500                                      | Detected | Spiroxamine         | 0.1500                                      | Detected |
| Imazalil           | 0.1500                                      | Detected | Carbofuran          | 0.1500                                      | Detected |
| Imidacloprid       | 0.1500                                      | Detected | Myclobutanil        | 0.1500                                      | Detected |
| Propiconazole      | 0.1500                                      | Detected | Tebuconazole        | 0.1500                                      | Detected |
| Acetamiprid        | 0.1500                                      | Detected | Captan              | 0.1500                                      | Detected |
| DDVP               | 0.1500                                      | Detected | Fenoxycarb          | 0.1500                                      | Detected |
| Propoxur           | 0.1500                                      | Detected | Naled               | 0.1500                                      | Detected |
| Aldicarb           | 0.1500                                      | Detected | Thiacloprid         | 0.1500                                      | Detected |
| Malathion          | 0.1500                                      | Detected | Chlorantraniliprole | 0.1500                                      | Detected |
| Pyridaben          | 0.1500                                      | Detected | Fenpyroximate       | 0.1500                                      | Detected |
| Azoxystrobin       | 0.1500                                      | Detected | Oxamyl              | 0.1500                                      | Detected |
| Dimethoate         | 0.1500                                      | Detected | Thiamethoxam        | 0.1500                                      | Detected |
| Metalaxyl          | 0.1500                                      | Detected | Trifloxystrobin     | 0.1500                                      | Detected |
| Methiocarb         | 0.1500                                      | Detected | Chlorpyrifos        | 0.1500                                      | Detected |
| Bifenthrin         | 0.1500                                      | Detected | Flonicamid          | 0.1500                                      | Detected |
| Ethoprophos        | 0.1500                                      | Detected | Permethrins         | 0.1500                                      | Detected |
| Methomyl           | 0.1500                                      | Detected | Clofentezine        | 0.1500                                      | Detected |
| Spriromesifen      | 0.1500                                      | Detected | Fludioxonil         | 0.1500                                      | Detected |
| Etofenprox         | 0.1500                                      | Detected |                     |   |          |

2020 Downyflake Lane
PCR-FRM-0072 Rev 0001 Allentown, PA 18103 12/13

Terpene Profile [PCR-TM-0003]Analyst: JJTest Date: 13 May 20

The sample was analyzed via Gas Chromatography – Flame Ionization Detection with Headspace Autosampler. The collected data was compared to data collected from certified analytical reference standards at known concentrations.

| Terpene             | Nominal Prep Conc<br>(mg/mL) | Measured Conc.<br>(mg/mL) | Recovery<br>(%) |  |
|---------------------|------------------------------|---------------------------|-----------------|--|
| α-Pinene            | 55.9                         | 62.6                      | 112%            |  |
| Camphene            | 54.5                         | 59.4                      | 109%            |  |
| β-Myrcene           | 55.4                         | 61.5                      | 111%            |  |
| β-Pinene            | 54.4                         | 59.2                      | 109%            |  |
| δ 3-Carene          | 55.7                         | 61.8                      | 111%            |  |
| α-Terpinene         | 57.0                         | 64.9                      | 114%            |  |
| Ocimene             | 47.4                         | 45.0                      | 95%             |  |
| δ-Limonene          | 54.1                         | 62.2                      | 115%            |  |
| p-Cymene            | 57.3                         | 61.9                      | 108%            |  |
| β-Ocimene           | 49.5                         | 49.0                      | 99%             |  |
| Eucalyptol          | 54.4                         | 59.3                      | 109%            |  |
| γ-Terpinene         | 52.2                         | 54.2                      | 104%            |  |
| Terpinolene         | 55.4                         | 61.5                      | 111%            |  |
| Linalool            | 50.4                         | 50.9                      | 101%            |  |
| Isopulegol          | 45.7                         | 41.6                      | 91%             |  |
| Geraniol            | 49.5                         | 49.0                      | 99%             |  |
| β-Caryphyllene      | 55.8                         | 62.5                      | 112%            |  |
| α-Humulene          | 51.5                         | 53.1                      | 103%            |  |
| Nerolidol 1         | 52.8                         | 55.9                      | 106%            |  |
| Nerolidol 2         | 53.1                         | 56.2                      | 106%            |  |
| Guaiol              | 58.9                         | 69.5                      | 118%            |  |
| Caryophyllene Oxide | 59.3                         | 69.9                      | 118%            |  |
| α-Bisabolol         |                              |                           |                 |  |

Criteria for successful analysis is QC recovery to be ≤20% above or below nominal.

END OF REPORT

2020 Downyflake Lane
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