

Customer Name: CT Pharmaceutical Solutions

Customer Address: 47 Lower Main St.

Portland, CT 06480

Phone Number: 860-740-4340

Results issued on: 2/4/2020 COA No.: 89020420-A

| Client Lot Number | Sample ID | Tests Conducted            |
|-------------------|-----------|----------------------------|
| LGR091819         | 8042-1    | Quality Control Analysis   |
|                   | 8042-2    |                            |
|                   | 8042-2    | Active Ingredient Analysis |
|                   | 8042-2    | Terpene Analysis           |

### Quality Control Results

| <u>Test</u>  | <u>Test Conducted</u>               | <u>Specification</u>    | <u>Results (Pass/Fail)</u> |
|--------------|-------------------------------------|-------------------------|----------------------------|
| Microbiology | Total Aerobic Microbial Count       | < 10 <sup>6</sup> CFU/g | Passed                     |
|              | Total Yeast and Mold Count          | < 10 <sup>4</sup> CFU/g | Passed                     |
|              | Gram-negative Bacteria              | < 10 <sup>2</sup> CFU/g | Passed                     |
|              | <i>E. coli</i> (pathogenic strains) | Not Detected in 1 gram  | Passed                     |
|              | <i>Salmonella</i>                   | Not Detected in 1 gram  | Passed                     |
| Mycotoxins   | Aflatoxin B1                        | < 20 ug/Kg              | Passed                     |
|              | Aflatoxin B2                        | < 20 ug/Kg              | Passed                     |
|              | Aflatoxin G1                        | < 20 ug/Kg              | Passed                     |
|              | Aflatoxin G2                        | < 20 ug/Kg              | Passed                     |
|              | Ochratoxin A                        | < 20 ug/Kg              | Passed                     |
| Heavy Metals | Arsenic - As                        | < 4.206 ug/g            | Passed                     |
|              | Cadmium - Cd                        | < 2.704 ug/g            | Passed                     |
|              | Mercury - Hg                        | < 8.712 ug/g            | Passed                     |
|              | Lead - Pb                           | < 8.712 ug/g            | Passed                     |
| Pesticides   | See attachment A                    |                         | Passed                     |

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## **Active Ingredient Results**

*via High Performance Liquid Chromatography (HPLC)*

| Cannabinoid                       | Percent by weight (w/w) |
|-----------------------------------|-------------------------|
| Tetrahydrocannabinol Acid (THC-A) | 31.7%                   |
| Tetrahydrocannabinol (THC)        | 0.21%                   |
| Cannabidiol Acid (CBD-A)          | <0.10%                  |
| Cannabidiol (CBD)                 | <0.10%                  |
| Cannabigerol Acid (CBG-A)         | 1.24%                   |
| Cannabigerol (CBG)                | 0.13%                   |
| Cannabinol (CBN)                  | <0.10%                  |
| Cannabichromene (CBC)             | <0.10%                  |
| Tetrahydrocannabivarin (THCV)     | <0.10%                  |
| Cannabidivarin (CBDV)             | <0.10%                  |

**Moister Content  
(% w/w)**

**12.4%**

## **Terpene Content Results**

*via Gas Chromatography Mass Spectrometry (GC-MS)*

| Terpene                | Percent by weight (w/w) |
|------------------------|-------------------------|
| $\alpha$ -Pinene       | <0.10%                  |
| $\beta$ -Pinene        | <0.10%                  |
| $\beta$ -Myrcene       | 0.18%                   |
| Limonene               | 0.46%                   |
| Ocimene                | <0.10%                  |
| Linalool               | <0.10%                  |
| $\beta$ -Caryophyllene | 0.57%                   |
| Humulene               | 0.18%                   |



Results Approved by: Jose A. Zavaleta, Lab Director

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### **Attachment A**

| <b>Pesticide</b>                         | <b>Residue limits according to EPA<br/>in parts per billion (ppb)</b> | <b>Results</b> |
|------------------------------------------|-----------------------------------------------------------------------|----------------|
| <b>Avermectin (abamectin)</b>            | < 10                                                                  | Pass           |
| <b>Acequinocyl</b>                       | < 20                                                                  | Pass           |
| <b>Bifenazate</b>                        | < 100                                                                 | Pass           |
| <b>Bifenthrin (synthetic pyrethroid)</b> | < 50                                                                  | Pass           |
| <b>Cyfluthrin (synthetic pyrethroid)</b> | < 20                                                                  | Pass           |
| <b>Etoxazole</b>                         | < 10                                                                  | Pass           |
| <b>Imazalil</b>                          | < 100                                                                 | Pass           |
| <b>Imidacloprid</b>                      | < 50                                                                  | Pass           |
| <b>Myclobutanil</b>                      | < 20                                                                  | Pass           |
| <b>Paclobutrazol</b>                     | < 400                                                                 | Pass           |
| <b>Pyrethrins (synthetic)</b>            | < 50                                                                  | Pass           |
| <b>Spinosad</b>                          | < 10                                                                  | Pass           |
| <b>Spiromesifen</b>                      | < 20                                                                  | Pass           |
| <b>Spirotetramat</b>                     | < 200                                                                 | Pass           |
| <b>Trifloxystrobin</b>                   | < 50                                                                  | Pass           |

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