

Customer Name: Theraplant, LLC  
Customer Address: 856 Echo Lake Road  
Watertown, CT 06795  
Phone Number: 860-417-6481

Results issued on: 5/8/2020 COA No.: 84050820-C

| Client Lot Number | Sample ID | Tests Conducted            |
|-------------------|-----------|----------------------------|
| HPEN20-007        | 1569-5    | Quality Control Analysis   |
|                   | 1569-6    |                            |
|                   | 1569-6    | Active Ingredient Analysis |
|                   | 1569-6    | 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        | Not Present             | Passed                     |
|              | <i>Staphylococcus aureus</i>  | Not Present             | Passed                     |
|              | <i>Pseudomonas aeruginosa</i> | Not Present             | 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              |                         | Residues Detected          |
|              |                               |                         | ND                         |

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## Active Ingredient Results

*via High Performance Liquid Chromatography (HPLC)*

| Cannabinoid                                                | Percent by weight (w/w) | mg per 1-mL  | mg per 272.9-mg of product | mg per 477.5-mg of product |
|------------------------------------------------------------|-------------------------|--------------|----------------------------|----------------------------|
| $\Delta^9$ -Tetrahydrocannabinol Acid ( $\Delta^9$ -THC-A) | 6.60%                   | 66.3         | 18.0                       | 31.5                       |
| $\Delta^9$ -Tetrahydrocannabinol ( $\Delta^9$ -THC)        | 66.7%                   | 670.3        | 182.0                      | 318.5                      |
| Cannabidiol Acid (CBD-A)                                   | 0.11%                   | 1.10         | 0.30                       | 0.52                       |
| Cannabidiol (CBD)                                          | 0.19%                   | 1.91         | 0.52                       | 0.90                       |
| Cannabigerol Acid (CBG-A)                                  | 0.77%                   | 7.74         | 2.10                       | 3.67                       |
| Cannabigerol (CBG)                                         | 2.55%                   | 25.6         | 6.96                       | 12.1                       |
| Cannabinol (CBN)                                           | 0.92%                   | 9.24         | 2.51                       | 4.39                       |
| Cannabichromene (CBC)                                      | 0.77%                   | 7.74         | 2.10                       | 3.67                       |
| Tetrahydrocannabivarin (THCV)                              | 0.57%                   | 5.73         | 1.55                       | 2.72                       |
| Cannabidivarin (CBDV)                                      | <0.10%                  | <0.10        | <0.10                      | <0.10                      |
| <b>Total</b>                                               |                         | <b>795.6</b> | <b>216.0</b>               | <b>377.9</b>               |

**Total Cannabinoids per 0.1 mL = 79.5 mg**

## 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       | 0.33%                   |
| Limonene               | 0.45%                   |
| Ocimene                | 0.19%                   |
| Linalool               | 0.29%                   |
| $\beta$ -Caryophyllene | 0.95%                   |
| Humulene               | 0.40%                   |



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>Avermectin (abamectin)</b>            | < 10                                                                  |
| <b>Acequinocyl</b>                       | < 20                                                                  |
| <b>Bifenazate</b>                        | < 100                                                                 |
| <b>Bifenthrin (synthetic pyrethroid)</b> | < 50                                                                  |
| <b>Cyfluthrin (synthetic pyrethroid)</b> | < 20                                                                  |
| <b>Etoxazole</b>                         | < 10                                                                  |
| <b>Imazalil</b>                          | < 100                                                                 |
| <b>Imidacloprid</b>                      | < 50                                                                  |
| <b>Myclobutanil</b>                      | < 20                                                                  |
| <b>Paclobutrazol</b>                     | < 400                                                                 |
| <b>Pyrethrins (synthetic)</b>            | < 50                                                                  |
| <b>Spinosad</b>                          | < 10                                                                  |
| <b>Spiromesifen</b>                      | < 20                                                                  |
| <b>Spirotetramat</b>                     | < 200                                                                 |
| <b>Trifloxystrobin</b>                   | < 50                                                                  |

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