

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

Results issued on: 5/18/2020 COA No.: 84051820-C

| Client Lot Number | Sample ID | Tests Conducted            |
|-------------------|-----------|----------------------------|
| SPEN20-011        | 1573-5    | Quality Control Analysis   |
|                   | 1573-6    |                            |
|                   | 1573-6    | Active Ingredient Analysis |
|                   | 1573-6    | 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   | <i>See attachment A</i>       |                         | Residues Detected          |
|              |                               |                         | ND                         |

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Client Lot Number: SPEN20-011

## Active Ingredient Results

*via High Performance Liquid Chromatography (HPLC)*

| Cannabinoid                                                | Percent by weight (w/w) | mg per 1-mL  | mg per 313.6-mg of product | mg per 548.7-mg of product |
|------------------------------------------------------------|-------------------------|--------------|----------------------------|----------------------------|
| $\Delta^9$ -Tetrahydrocannabinol Acid ( $\Delta^9$ -THC-A) | 13.6%                   | 131.9        | 42.6                       | 74.6                       |
| $\Delta^9$ -Tetrahydrocannabinol ( $\Delta^9$ -THC)        | 50.2%                   | 486.9        | 157.4                      | 275.4                      |
| Cannabidiol Acid (CBD-A)                                   | 0.24%                   | 2.33         | 0.75                       | 1.31                       |
| Cannabidiol (CBD)                                          | 0.22%                   | 2.13         | 0.69                       | 1.20                       |
| Cannabigerol Acid (CBG-A)                                  | 0.14%                   | 1.36         | 0.44                       | 0.77                       |
| Cannabigerol (CBG)                                         | 0.78%                   | 7.56         | 2.44                       | 4.28                       |
| Cannabinol (CBN)                                           | 1.61%                   | 15.6         | 5.05                       | 8.83                       |
| Cannabichromene (CBC)                                      | 1.11%                   | 10.7         | 3.48                       | 6.09                       |
| Tetrahydrocannabivarin (THCV)                              | 0.51%                   | 4.94         | 1.60                       | 2.80                       |
| Cannabidivarin (CBDV)                                      | <0.10%                  | <0.10        | <0.10                      | <0.10                      |
| <b>Total</b>                                               |                         | <b>663.4</b> | <b>214.4</b>               | <b>375.3</b>               |

**Total Cannabinoids per 0.1 mL = 66.3 mg**

## Terpene Content Results

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

| Terpene                | Percent by weight (w/w) |
|------------------------|-------------------------|
| $\alpha$ -Pinene       | 0.12%                   |
| $\beta$ -Pinene        | 0.24%                   |
| $\beta$ -Myrcene       | 0.93%                   |
| Limonene               | 0.15%                   |
| Ocimene                | 0.41%                   |
| Linalool               | 0.26%                   |
| $\beta$ -Caryophyllene | 0.38%                   |
| Humulene               | 0.16%                   |



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                                                                  |