

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

Results issued on: 12/3/2018 COA No.: 84120318-A

| Client Lot Number | Sample ID | Tests Conducted            |
|-------------------|-----------|----------------------------|
| SPEN18-002        | 1423-1    | Quality Control Analysis   |
|                   | 1423-2    |                            |
|                   | 1423-2    | Active Ingredient Analysis |
|                   | 1423-2    | Terpene Analysis           |

### Quality Control Results

| <u>Analysis</u> | <u>Test Conducted</u>                | <u>Specification</u> | <u>Results (Pass/Fail)</u> |
|-----------------|--------------------------------------|----------------------|----------------------------|
| Microbiology    | Total Aerobic Microbial Count        | < 2,000 CFU/g        | Pass                       |
|                 | Total Yeast and Mold Count           | < 200 CFU/g          | Pass                       |
|                 | Bile-tolerant Gram-negative Bacteria | Not Present          | Pass                       |
|                 | <i>Staphylococcus aureus</i>         | Not Present          | Pass                       |
|                 | <i>Pseudomonas aeruginosa</i>        | Not Present          | Pass                       |
| Mycotoxins      | Aflatoxin B1                         | < 20 ug/Kg           | Pass                       |
|                 | Aflatoxin B2                         | < 20 ug/Kg           | Pass                       |
|                 | Aflatoxin G1                         | < 20 ug/Kg           | Pass                       |
|                 | Aflatoxin G2                         | < 20 ug/Kg           | Pass                       |
|                 | Ochratoxin A                         | < 20 ug/Kg           | Pass                       |
| Heavy Metals    | Arsenic - As                         | < 4.206 ug/g         | Pass                       |
|                 | Cadmium - Cd                         | < 2.704 ug/g         | Pass                       |
|                 | Mercury - Hg                         | < 8.712 ug/g         | Pass                       |
|                 | Lead - Pb                            | < 8.712 ug/g         | Pass                       |
| Pesticides      | See attachment A                     |                      | Pass                       |

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Client Lot Number: SPEN18-002

## **Active Ingredient Results**

*via High Performance Liquid Chromatography (HPLC)*

| Cannabinoid                                                | Percent by weight (w/w) |
|------------------------------------------------------------|-------------------------|
| $\Delta^9$ -Tetrahydrocannabinol Acid ( $\Delta^9$ -THC-A) | 21.9%                   |
| $\Delta^9$ -Tetrahydrocannabinol ( $\Delta^9$ -THC)        | 54.1%                   |
| Cannabidiol Acid (CBD-A)                                   | 0.16%                   |
| Cannabidiol (CBD)                                          | <0.10%                  |
| Cannabigerol Acid (CBG-A)                                  | 2.90%                   |
| Cannabigerol (CBG)                                         | 2.22%                   |
| Cannabinol (CBN)                                           | 0.16%                   |
| Cannabichromene (CBC)                                      | 0.92%                   |
| Tetrahydrocannabivarin (THCV)                              | 0.40%                   |
| Cannabidivarin (CBDV)                                      | <0.10%                  |

## **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       | 0.56%                   |
| Limonene               | 0.14%                   |
| Ocimene                | <0.10%                  |
| Linalool               | 0.93%                   |
| $\beta$ -Caryophyllene | 1.22%                   |
| Humulene               | 0.16%                   |



Results Approved by: Jose A. Zavaleta, Lab Director

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Client Lot Number: **SPEN18-002**

### **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           |