

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

Results issued on: 11/21/2019 COA No.: 84112119-B

| Client Lot Number | Sample ID | Tests Conducted            |
|-------------------|-----------|----------------------------|
| HPEN19-009        | 1522-3    | Quality Control Analysis   |
|                   | 1522-4    |                            |
|                   | 1522-4    | Active Ingredient Analysis |
|                   | 1522-4    | 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 | < 200 CFU/g          | Passed                     |
|                 | Total Yeast and Mold Count    | < 20 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              |                      | Passed                     |

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Client Lot Number: HPEN19-009

## **Active Ingredient Results**

*via High Performance Liquid Chromatography (HPLC)*

| Cannabinoid                                                | Percent by weight (w/w) |
|------------------------------------------------------------|-------------------------|
| $\Delta^9$ -Tetrahydrocannabinol Acid ( $\Delta^9$ -THC-A) | <0.10%                  |
| $\Delta^9$ -Tetrahydrocannabinol ( $\Delta^9$ -THC)        | 69.6%                   |
| Cannabidiol Acid (CBD-A)                                   | <0.10%                  |
| Cannabidiol (CBD)                                          | 5.65%                   |
| Cannabigerol Acid (CBG-A)                                  | <0.10%                  |
| Cannabigerol (CBG)                                         | 1.71%                   |
| Cannabinol (CBN)                                           | 2.04%                   |
| Cannabichromene (CBC)                                      | 1.17%                   |
| Tetrahydrocannabivarin (THCV)                              | 0.52%                   |
| 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       | 0.25%                   |
| Limonene               | 0.82%                   |
| Ocimene                | <0.10%                  |
| Linalool               | 0.97%                   |
| $\beta$ -Caryophyllene | 1.64%                   |
| Humulene               | 0.61%                   |



Results Approved by Jose A. Zavaleta, Lab Director

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### Attachment A

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