

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

Results issued on: 9/16/2017 COA No.: 84091617-A

| Client Lot Number | Sample ID | Tests Conducted            |
|-------------------|-----------|----------------------------|
| IPenO-11          | 1295-1    | Quality Control Analysis   |
|                   | 1295-2    |                            |
|                   | 1295-2    | Active Ingredient Analysis |
|                   | 1295-2    | 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        | Passed                     |
|                 | Total Yeast and Mold Count           | < 200 CFU/g          | Passed                     |
|                 | Bile-tolerant 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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## **Active Ingredient Results**

*via High Performance Liquid Chromatography (HPLC)*

| Cannabinoid                                                | Percent by weight<br>(w/w) |
|------------------------------------------------------------|----------------------------|
| $\Delta^9$ -Tetrahydrocannabinol Acid ( $\Delta^9$ -THC-A) | 24.6%                      |
| $\Delta^9$ -Tetrahydrocannabinol ( $\Delta^9$ -THC)        | 44.4%                      |
| Cannabidiol Acid (CBD-A)                                   | 0.3%                       |
| Cannabidiol (CBD)                                          | <0.1%                      |
| Cannabigerol Acid (CBG-A)                                  | 1.4%                       |
| Cannabigerol (CBG)                                         | 1.5%                       |
| Cannabinol (CBN)                                           | 0.2%                       |
| Cannabichromene (CBC)                                      | 0.6%                       |
| Tetrahydrocannabivarin (THCV)                              | 0.6%                       |
| Cannabidivarin (CBDV)                                      | <0.1%                      |

## **Terpene Content Results**

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

| Terpene                | Percent by weight<br>(w/w) |
|------------------------|----------------------------|
| $\alpha$ -Pinene       | 0.005%                     |
| $\beta$ -Pinene        | 0.016%                     |
| $\beta$ -Myrcene       | 0.114%                     |
| Limonene               | 0.092%                     |
| Ocimene                | 0.043%                     |
| Linalool               | 0.253%                     |
| $\beta$ -Caryophyllene | 1.451%                     |
| Humulene               | 0.411%                     |



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    |

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