

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

Results issued on: 10/20/2017 COA No.: 84102017-A

| Client Lot Number | Sample ID | Tests Conducted            |
|-------------------|-----------|----------------------------|
| 578               | 1305-1    | Quality Control Analysis   |
|                   | 1305-2    |                            |
|                   | 1305-2    | Active Ingredient Analysis |
|                   | 1305-2    | Terpene Analysis           |

### Quality Control Results

| <u>Test</u>  | <u>Test Conducted</u>                | <u>Specification</u> | <u>Results</u><br><u>(Pass/Fail)</u> |
|--------------|--------------------------------------|----------------------|--------------------------------------|
| Microbiology | Total Aerobic Microbial Count        | < 100K CFU/g         | Passed                               |
|              | Total Yeast and Mold Count           | < 10K CFU/g          | Passed                               |
|              | Bile-Tolerant Gram-Negative Bacteria | < 1,000 CFU/g        | Passed                               |
|              | <i>E. coli</i> (pathogenic strains)  | Not Present          | Passed                               |
|              | <i>Salmonella</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) | 25.253%                    |
| $\Delta^9$ -Tetrahydrocannabinol ( $\Delta^9$ -THC)        | 0.229%                     |
| Cannabidiol Acid (CBD-A)                                   | 0.073%                     |
| Cannabidiol (CBD)                                          | <0.001%                    |
| Cannabigerol Acid (CBG-A)                                  | 0.631%                     |
| Cannabigerol (CBG)                                         | 0.050%                     |
| Cannabinol (CBN)                                           | 0.012%                     |
| Cannabichromene (CBC)                                      | 0.079%                     |
| Tetrahydrocannabivarin (THCV)                              | 0.005%                     |
| Cannabidivarin (CBDV)                                      | 0.191%                     |

## **Terpene Content Results**

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

| Terpene                | Percent by weight<br>(w/w) |
|------------------------|----------------------------|
| $\alpha$ -Pinene       | 0.087%                     |
| $\beta$ -Pinene        | 0.105%                     |
| $\beta$ -Myrcene       | 0.070%                     |
| Limonene               | 0.358%                     |
| Ocimene                | 0.226%                     |
| Linalool               | 0.120%                     |
| $\beta$ -Caryophyllene | 0.291%                     |
| Humulene               | 0.118%                     |



Results Approved by: Jose A. Zavaleta, Lab Director

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## **Attachment A**

| <b>Pesticide</b>                         | <b>Residue limits according to EPA in<br/>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           |