

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

Results issued on: 6/29/2016 COA No.: 84062916-A

| Client Lot Number | Sample ID  | Tests Conducted            |
|-------------------|------------|----------------------------|
| 385A              | 84062116-3 | Quality Control Analysis   |
|                   | 84061316-6 | Active Ingredient Analysis |
|                   | 84061316-6 | Terpene Analysis           |

### Quality Control Results

| Test         | Specification                                  | Results (Pass/Fail) |
|--------------|------------------------------------------------|---------------------|
| Microbiology | Total Aerobic Microbial Count (< 2K CFU/g)     | Pass                |
|              | Total Yeast and Mold Count (< 200 CFU/g)       | Pass                |
|              | Bile-tolerant Gram-negative Bacteria (absence) | Pass                |
|              | <i>Staph. aureus</i> (absence)                 | Pass                |
|              | <i>Pseud. aeruginosa</i> (absence)             | 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                |

## **Active Ingredient Results**

*via High Performance Liquid Chromatography (HPLC)*

| Cannabinoid                                                | Percent by weight<br>(w/w) |
|------------------------------------------------------------|----------------------------|
| $\Delta^9$ -Tetrahydrocannabinol Acid ( $\Delta^9$ -THC-A) | 23.1%                      |
| $\Delta^9$ -Tetrahydrocannabinol ( $\Delta^9$ -THC)        | 0.4%                       |
| Cannabidiol Acid (CBD-A)                                   | 0.2%                       |
| Cannabidiol (CBD)                                          | <0.1%                      |
| Cannabigerol Acid (CBG-A)                                  | 0.3%                       |
| Cannabigerol (CBG)                                         | 0.1%                       |
| Cannabinol (CBN)                                           | <0.1%                      |
| Cannabichromene (CBC)                                      | <0.1%                      |
| Tetrahydrocannabivarin (THCV)                              | <0.1%                      |

## **Terpene Content Results**

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

| Terpene                | Percent by weight<br>(w/w) |
|------------------------|----------------------------|
| $\alpha$ -Pinene       | <0.1%                      |
| $\beta$ -Pinene        | <0.1%                      |
| $\beta$ -Myrcene       | <0.1%                      |
| Limonene               | 0.1%                       |
| Ocimene                | <0.1%                      |
| Linalool               | <0.1%                      |
| $\beta$ -Caryophyllene | 0.3%                       |
| Humulene               | 0.1%                       |



Results Approved by: Jose A. Zavaleta, Lab Director

## 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    |