

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

Results issued on: 5/21/2016 COA No.: 84052116-A

| Client Lot Number | Sample ID  | Tests Conducted            |
|-------------------|------------|----------------------------|
| IPJ-2             | 84051916-1 | Quality Control Analysis   |
|                   | 84051916-2 | Active Ingredient Analysis |
|                   | 84051916-2 | 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/ <i>Escherichia coli</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) | mg per mL of<br>product |
|------------------------------------------------------------|----------------------------|-------------------------|
| $\Delta^9$ -Tetrahydrocannabinol Acid ( $\Delta^9$ -THC-A) | 0.8%                       | 6.5                     |
| $\Delta^9$ -Tetrahydrocannabinol ( $\Delta^9$ -THC)        | 35.3%                      | 289.0                   |
| Cannabidiol Acid (CBD-A)                                   | 0.1%                       | 0.8                     |
| Cannabidiol (CBD)                                          | 0.1%                       | 0.8                     |
| Cannabigerol Acid (CBG-A)                                  | 0.4%                       | 3.3                     |
| Cannabigerol (CBG)                                         | 0.8%                       | 6.5                     |
| Cannabinol (CBN)                                           | 0.7%                       | 5.7                     |
| Cannabichromene (CBC)                                      | 0.5%                       | 4.1                     |
| Tetrahydrocannabivarin (THCV)                              | 0.3%                       | 2.5                     |

## **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**

| <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           |