

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

Results issued on: 2/19/2017 COA No.: 84021917-C

| Client Lot Number | Sample ID | Tests Conducted            |
|-------------------|-----------|----------------------------|
| CBDPEN-03         | 1224-9    | Quality Control Analysis   |
|                   | 1224-10   | Active Ingredient Analysis |
|                   | 1224-10   | Terpene Analysis           |

### Quality Control Results

| <u>Analysis</u> | <u>Test Conducted</u>                | <u>Specification</u> | <u>Results</u><br><u>(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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Client Lot Number: CBDPEN-03

## **Active Ingredient Results**

*via High Performance Liquid Chromatography (HPLC)*

| Cannabinoid                                                | Percent by weight<br>(w/w) |
|------------------------------------------------------------|----------------------------|
| $\Delta^9$ -Tetrahydrocannabinol Acid ( $\Delta^9$ -THC-A) | 1.3%                       |
| $\Delta^9$ -Tetrahydrocannabinol ( $\Delta^9$ -THC)        | 2.2%                       |
| Cannabidiol Acid (CBD-A)                                   | 49.3%                      |
| Cannabidiol (CBD)                                          | 19.4%                      |
| Cannabigerol Acid (CBG-A)                                  | 0.6%                       |
| Cannabigerol (CBG)                                         | 0.4%                       |
| Cannabinol (CBN)                                           | <0.1%                      |
| Cannabichromene (CBC)                                      | 1.3%                       |
| Tetrahydrocannabivarin (THCV)                              | 0.2%                       |
| Cannabidivarin (CBDV)                                      | 0.3%                       |

## **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 | 0.5%                       |
| Humulene               | 0.2%                       |



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           |