

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

Results issued on: 11/28/2017 COA No.: 84112817-D

| Client Lot Number | Sample ID | Tests Conducted            |
|-------------------|-----------|----------------------------|
| CBD/CCBD-APJ      | 1314-3    | Quality Control Analysis   |
|                   | 1314-4    |                            |
|                   | 1314-4    | Active Ingredient Analysis |
|                   | 1314-4    | 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/<br><i>Escherichia coli</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: CBD/CCBD-APJ

## **Active Ingredient Results**

*via High Performance Liquid Chromatography (HPLC)*

| Cannabinoid                                                | Percent by weight<br>(w/w) |
|------------------------------------------------------------|----------------------------|
| $\Delta^9$ -Tetrahydrocannabinol Acid ( $\Delta^9$ -THC-A) | 0.1%                       |
| $\Delta^9$ -Tetrahydrocannabinol ( $\Delta^9$ -THC)        | 0.7%                       |
| Cannabidiol Acid (CBD-A)                                   | 7.1%                       |
| Cannabidiol (CBD)                                          | 9.1%                       |
| Cannabigerol Acid (CBG-A)                                  | 0.1%                       |
| Cannabigerol (CBG)                                         | 0.2%                       |
| Cannabinol (CBN)                                           | <0.1%                      |
| Cannabichromene (CBC)                                      | 0.6%                       |
| Tetrahydrocannabivarin (THCV)                              | 0.1%                       |
| Cannabidivarin (CBDV)                                      | <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 | 0.5%                       |
| Humulene               | 0.2%                       |



Results Approved by: Jose A. Zavaleta, Lab Director

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Client Lot Number: **CBD/CCBD-APJ**

### 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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