PURE ANALYTICS, INC.
www.pure-analytics.com

**1 Hartford Square, New Britain, CT 06052**
Tel: (860) 224-6668

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

Results issued on: 12/14/2016 COA No.: 84121416-A

| Client Lot Number | Sample ID | Tests Conducted |
|---|---|---|
| **469** | **1206-1**<br>**1206-2** | **Quality Control Analysis** |
| | **1206-2** | **Active Ingredient Analysis** |
| | **1206-2** | **Terpene Analysis** |

## Quality Control Results

| Test | Specification | Results (Pass/Fail) |
|---|---|---|
| **Microbiology** | Total Aerobic Microbial Count **(< 200K CFU/g)** | **Pass** |
| | Total Yeast and Mold Count **(< 20K CFU/g)** | **Pass** |
| | Bile-tolerant Gram-negative Bacteria **(absence)** | **Pass** |
| | *Staph. aureus* **(absence)** | **Pass** |
| | *Pseud. aeruginosa* **(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** |

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## Active Ingredient Results

*via High Performance Liquid Chromatography (HPLC)*

| Cannabinoid | Percent by weight (w/w) |
|---|---|
| $\Delta^9$-Tetrahydrocannabinol Acid ($\Delta^9$-THC-A) | 18.7% |
| $\Delta^9$-Tetrahydrocannabinol ($\Delta^9$-THC) | 0.2% |
| Cannabidiol Acid (CBD-A) | <0.1% |
| Cannabidiol (CBD) | <0.1% |
| Cannabigerol Acid (CBG-A) | 0.3% |
| Cannabigerol (CBG) | 0.1% |
| Cannabinol (CBN) | <0.1% |
| Cannabichromene (CBC) | <0.1% |
| Tetrahhydrocannabivarin (THCV) | <0.1% |

## Terpene Content Results

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

| Terpene | Percent by weight (w/w) |
|---|---|
| α-Pinene | 0.1% |
| β-Pinene | 0.1% |
| β-Myrcene | 0.1% |
| Limonene | 0.1% |
| Ocimene | <0.1% |
| Linalool | <0.1% |
| β-Caryophyllene | 0.1% |
| Humulene | <0.1% |

Results Approved by: Jose A. Zavaleta, Lab Director

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# Attachment A

| Pesticide | Residue limits according to EPA 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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