

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

Results issued on: 1/3/2017 COA No.: 84010317-C

Client Lot Number	Sample ID	Tests Conducted
CBDPENO-02	1210-5	Quality Control Analysis
	1210-6	
	1210-6	Active Ingredient Analysis
	1210-6	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
	<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

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Client Lot Number: **CBDPENO-02**

Active Ingredient Results

via High Performance Liquid Chromatography (HPLC)

Cannabinoid	Percent by weight (w/w)
Δ^9 -Tetrahydrocannabinol Acid (Δ^9 -THC-A)	1.6%
Δ^9 -Tetrahydrocannabinol (Δ^9 -THC)	2.2%
Cannabidiol Acid (CBD-A)	53.8%
Cannabidiol (CBD)	17.1%
Cannabigerol Acid (CBG-A)	0.7%
Cannabigerol (CBG)	0.4%
Cannabinol (CBN)	<0.1%
Cannabichromene (CBC)	1.3%
Tetrahydrocannabivarin (THCV)	0.2%

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	0.2%
Limonene	0.1%
Ocimene	<0.1%
Linalool	0.1%
β -Caryophyllene	0.7%
Humulene	0.2%



Results Approved by: Jose A. Zavaleta, Lab Director

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Client Lot Number: **CBDPEN0-02**

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