

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

Results issued on: 5/1/2018 COA No.: 84050118-D

Client Lot Number	Sample ID	Tests Conducted
IPen-15	1362-7	Quality Control Analysis
	1362-8	
	1362-8	Active Ingredient Analysis
	1362-8	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	Pass
	Total Yeast and Mold Count	< 200 CFU/g	Pass
	Bile-tolerant Gram-negative Bacteria	Not Present	Pass
	<i>Staphylococcus aureus</i>	Not Present	Pass
	<i>Pseudomonas aeruginosa</i>	Not Present	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: IPen-15

Active Ingredient Results

via High Performance Liquid Chromatography (HPLC)

Cannabinoid	Percent by weight (w/w)
Δ^9 -Tetrahydrocannabinol Acid (Δ^9 -THC-A)	35.5%
Δ^9 -Tetrahydrocannabinol (Δ^9 -THC)	31.2%
Cannabidiol Acid (CBD-A)	0.46%
Cannabidiol (CBD)	<0.10%
Cannabigerol Acid (CBG-A)	0.77%
Cannabigerol (CBG)	0.63%
Cannabinol (CBN)	0.20%
Cannabichromene (CBC)	0.40%
Tetrahydrocannabivarin (THCV)	0.42%
Cannabidivarin (CBDV)	<0.10%

Terpene Content Results

via Gas Chromatography Mass Spectrometry (GC-MS)

Terpene	Percent by weight (w/w)
α -Pinene	<0.10%
β -Pinene	<0.10%
β -Myrcene	0.59%
Limonene	0.16%
Ocimene	<0.10%
Linalool	3.60%
β -Caryophyllene	3.19%
Humulene	2.45%
<i>cis</i> -Nerolidol	1.36%
α -Bisabolol	0.29%



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