

Study on the Effects of Utilizing BetterAir's Enviro-Biotics Throughout the Cannabis Grow Cycle

Background -

East Coast Grow is a premier Medical Marijuana Cultivator in Southern Maine. Given the nature of an indoor marijuana cultivation facility, high standards of hygiene, particularly the control of common molds and yeast play a critical role in obtaining a marketable harvest. At the Request of their Master Grower, We have installed BetterAir's Biotica-800 for dispersing Enviro-Biotics into 1 Flowering/Bloom Room to ascertain the effects.

The Duration of the test shall be an entire Flowering Cycle. The Flower Room is 35'x 15' or 525 Sq. Ft.

The Flowering Room runs 8 Lights with a total of 6,000 Watts that cycle with 12 hours of daylight and 12 hours of darkness daily. The average temperature is 78 Degrees. The average humidity level is 55%

During this test there will be no change in the historical growing regime with the only variable being the introduction of BetterAir's Enviro-Biotics.

Study Objective –

- Master Grower is looking for overall hygiene increase in both air and on surfaces.
- Master Grower is looking for a remediation/ prevention method for common molds (*Powdery Mildew, Leaf Sephoria*) that are common in indoor cultivation.
- Master grower is looking to clean and remove pathogenic bacteria and mold from surfaces and stagnant air.

Observations- Before Harvest (Enviro-Biotics Treating the Facility During the Entire Grow Cycle)

- Master Grower Has Reported no signs of Mold or Mildew on surfaces or on flowering plants.
- Master Grower has reported no signs of pests, and a significant reduction in fungus gnats
- Master Grower noticed much cleaner grow room surfaces, making daily clean-up and harvest clean-up much faster.
- Master Growers noticed stronger roots/stalks/leaves, and all around vigor of plant increased

Results and Observations- After Harvest Utilizing Better'Air's Enviro-Biotics

- Master Grower recorded a 38% increase in yield on a per plant basis.
- Laboratory Testing verified a 48% increase in THC % (Lab Report Below)
- Laboratory Testing verified no detectible mold (Lab Report Below)
- Master Grower Noticed more density to marijuana buds on both the top and bottom of the plant
- Master Grower noticed better response from resin glands, resulting in more Trichomes

All testing was done by Sensible..... The Leading Marijuana Testing Laboratory in New England. A copy of their report is attached.

Historical Harvest Without Utilizing Enviro-Biotics

8 Lights

21 Plants

10 Gallon Pots

3,584 Grams

170 Grams a Plant

Harvest Utilizing Enviro-Biotics During the Grow Cycle

8 Lights

18 Plants

7 Gallon Pots

4,256 Grams

236.44 Grams a Plant

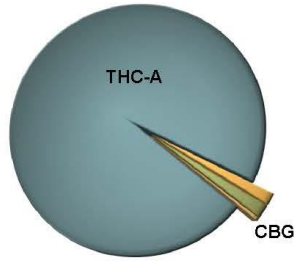
Conclusions: After introducing the BetterAir's Biotica800 into the flower room (the only variable to historical harvest results) the master grower has not only reported incredible results as far as cleanliness and happiness of plants, but has also reported increased per plant yield, increased THC content and most importantly no detectible mold of any kind.

There were no other changes in growing regime other than the introduction of BetterAir's Enviro-Biotics.

Test Results Before the Introduction of BetterAir's Enviro-Biotics

Results as a Percentage of Total Cannabinoids of Weight

- Percentage Total
- THC-A
 - Δ8
 - THC
 - Δ9
 - THC
 - THCV
 - CBD-A
 - CBD
 - CBDV
 - CBG-A
 - CBG
 - CBN
 - CBC



Δ9 THC
CBG-A

Detectable Limit: 0.05%

Calculated Totals	
Total CBD (CBD + CBDA)	0%
Max CBD	0%
Total THC (THC + THCA)	22.7%
Max THC	19.9%
Total Cannabinoids	23.1%

Safety Test Results

NT= Not Tested ND= None Detected



Mold: 2200 CFU



Yeast: 4,000 CFU

Proposed Limit 10,000 CFU
Detectable Limit 100 CFU



Aerobic Plate Count

Result: NT CFU

Proposed Limit 10,000 CFU
Detectable Limit 100 CFU



Heavy Metals

Arsenic NT Lead NT
Cadmium NT Mercury NT

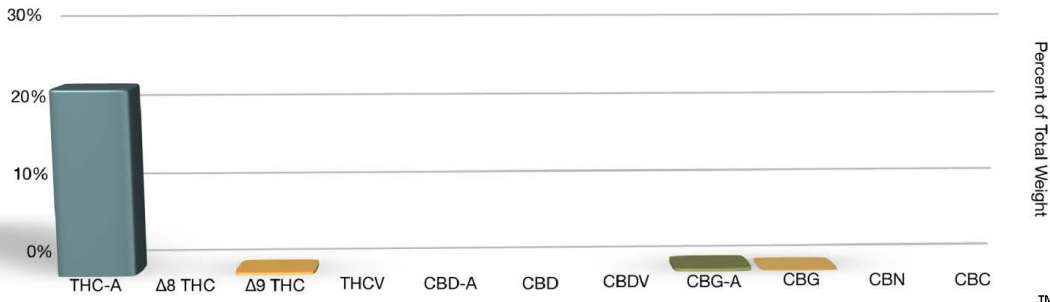
Detectable Limit 1PPM



Residual Solvent Test: Ethanol

Result: NT ppm

Proposed Limit 5,000 ppm



info@SensibleMaine.com

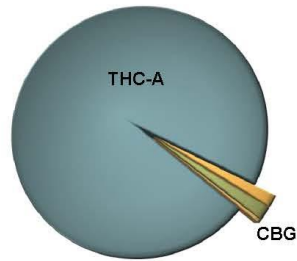
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Test Results After The Introduction Of BetterAir's Enviro-Biotics

Results as a Percentage of Total Cannabinoids of Weight

- Percentage Total
- THC-A
 - Δ8
 - THC
 - Δ9
 - THC
 - THCV
 - CBD-A
 - CBD
 - CBDV
 - CBG-A
 - CBG
 - CBN
 - CBC



Δ9 THC
CBG-A

Detectable Limit: 0.05%

Calculated Totals	
Total CBD (CBD + CBDA)	0%
Max CBD	0%
Total THC (THC + THCA)	32.1%
Max THC	29.4%
Total Cannabinoids	32.1%

Safety Test Results

NT= Not Tested ND= None Detected



Mold: ND CFU



Yeast: ND CFU

Proposed Limit 10,000 CFU
Detectable Limit 100 CFU



Aerobic Plate Count

Result: NT CFU

Proposed Limit 10,000 CFU
Detectable Limit 100 CFU



Heavy Metals

Arsenic NT Lead NT
Cadmium NT Mercury NT

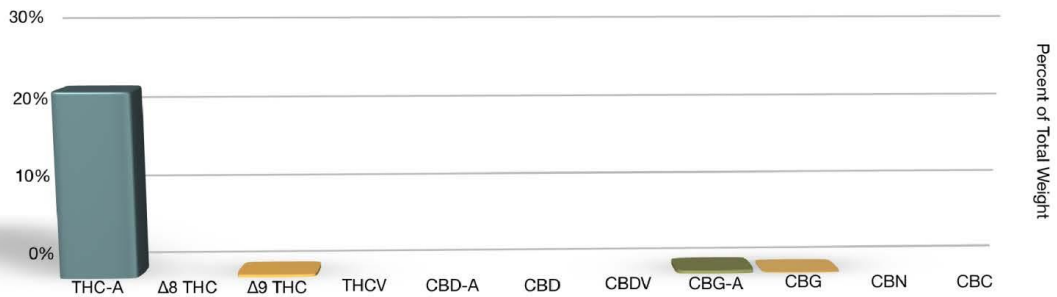
Detectable Limit 1PPM



Residual Solvent Test: Ethanol

Result: NT ppm

Proposed Limit 5,000 ppm



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