



Average Monitored and Controlled Environmental Set Points for the Grow

1. Room temp. 75-80F
2. CO₂ 700-900 PPM During light on hours
3. Humidity 40-60% 40
4. Lux at canopy. 50,000 minimum. 60,000 was Average
5. Root temp 65-70 68 ideal Set point
6. Dissolved Oxygen 8-9 PPM in 68 degree water
7. EC Check # Between 1.9 and 2.3 dependent on grow cycle
8. PH 6.3 to 6.8
9. ORP 300 to 500 300 min. to keep bacteria at bay.

Grow Report

PROJECT LAS
VEGAS NV
CPG3, Name Given to single use product CalPhusion G3 Maxx
Advanced Nutrient Fertility Program

Transplant into Grow Cube

Live plants with minimal rooting were transplanted into the Grow Cube
Roots were not properly developed at time of Transplant



Week 1 Grow

Plants are beginning to take hold, Stem elongation appears normal as with transition to grow mode. New shoot development appears normal. Nodulation appears normal. Plants are thriving and developing quite well, for having been delivered and planted with minimal root mass. are rapidly developing, excellent color, vigor, and extensive root hairs along with caps are ahead of normal development. Training nets were installed. No disease is detected at the moment. Reservoir tanks are clean, solution is clean, and no mold or algae is present in tanks or water. All monitored environmental controls were normal and within optimal limits to include light (LUX) set to veg mode, water temperature, air temperature, pH, DO, EC, Co₂, Humidity, ORP. CPG₃ table was much cleaner than the REMOS side, Algae was beginning to Start on the REMOS table.



Week 2

Plants appear healthy, well nourished, and are in Grow/Vegetative state, complete transition to Grow mode is apparent. Roots continue rapid development, excellent color, vigor, and extensive root hairs along with caps are ahead of normal development. No disease is detected at the moment.

Reservoir tanks are clean, solution is clean, and no mold or algae is present in tanks or water on the CPG₃ side, Remos table water is cloudy with particulate noticeable on the bottom of the tank, onset or algae All monitored environmental controls were normal and within optimal limits to include light (LUX) set to veg mode, water temperature, air temperature, pH, DO, EC, Co₂, Humidity, ORP.



Week 3 Grow

Plants appear healthy, well nourished, and are in Grow/Vegetative state. And are ahead of normal growth. Via microscopic inspection Powdery Mildew (a.k.a. *Sphaerotheca fuliginea*) was detected. Upon inspection of the mother plants it was determined that this infection was transmitted from the mother plants in the grow room. Immediate application of Zonix Bio-fungicide was applied at 500 ppm via foliar application, the pathogen was controlled and eradicated from the Grow Cube environment. The mother plants and all other plants were treated by with Zonix. in all grow areas and the pathogen appears to be under control. Zonix is an EPA registered product for the control of pathogens and is approved by the EPA for all plants it is also OMRI registered as an organic product and approved for this specific use indoors. Roots continue rapid development, excellent color, vigor, and extensive root hairs along with caps are ahead of normal development. No disease is detected at the moment. Reservoir tanks are clean, solution is clean, and no mold or algae is present in tanks or water on CPG₃, Dirty on Remos. All environmental controls were normal and within optimal limits to include light (LUX) set to veg mode, water temperature, air temperature, pH, DO, EC, Co₂, Humidity, ORP.



Week 4 Transition

Plants vigor is excellent, Growth is ahead of schedule, robust and well developed, Plants are in Transition state, transition to Flower mode is apparent. Roots Growth has exceeded my expectations, excellent color, vigor, and massive root hairs along with caps. No disease present, I attribute this to the stainless steel tanks, fixtures and smooth surface walls of the grow cubes, which are easily cleaned and disinfected, the smooth surfaces of the Grow Cubes do not allow spores to attach themselves to the smooth surfaces making disease eradication easy and permanent. The pathogen has returned to the grow areas and another application of Zonix was applied to control the pathogen. There are many areas in the grow areas for pathogens to attach themselves and with the air movement re-infest the plants. I would recommend a complete decontamination of all surfaces to include fixtures, AC Vents, all exposed conduit, and ceiling. Grow Cube Reservoir tanks are spotless, solution is clean, and no mold or algae is present in tanks or water. All monitored environmental controls were normal and within optimal limits to include light (LUX) set to veg mode, water temperature, air temperature, pH, DO, EC, Co₂, Humidity, ORP. We began to add Hydrogen Peroxide to water on Remos Table to keep clean.



Week 5 Bloom

Plants vigor is excellent, Plants are thriving and continuing to grow, robust and well developed growth is evident, Plants are in Bloom state, Bloom mode is apparent. Healthy Roots continues, excellent color, vigor, and massive root hairs along with caps. Microscopic inspection shows no disease present along with massive chlorophyll and chloroplasts production, an indication of all macro and micro nutrients available to assimilation, the chelation agent utilized in the CalPhusion G₃ product line.





