

Grow Room Protocols

Phenotype Screening Corporation Stock Nutrient Formulation

- Begin with: 2.5 Liters Water
- Add and stir until completely mixed: 210 grams Plantex 15-15-30
- Add and stir until completely mixed: 84 grams Ammonium Nitrate (34-0-0)
- Add and stir until completely mixed: 12 grams Plantex CSM (micronutrients)
- Add and stir until completely mixed: 96 grams Epsom Salt (MgSO₄)
- Add and stir until completely mixed: 11.5 grams Sequestrene (Fe – Iron)
- Add and stir until completely mixed: 3 tsp. Oxidate (Broad spectrum fungicide)

Pour this mixture into a large container and fill the container with water until you reach a total amount of 3 liters. The resulting mixture values are given below and are shown with target amounts recommended by university researchers.

	Target	Your mixture	
	ppm	ppm	mM
Total Nitrogen	200	200	14.30
Ammonium-N (NH₄ – N)	47.4	68	3.79
Nitrate-N (NO₃ – N)	75.6	109	1.76
Urea-N (Urea-N)	117	23	0.38
Phosphorus (P)	85	105	3.39
Potassium (K)	200	210	5.37
Calcium (Ca)	42	0	0.00
Magnesium (Mg)	44	32	1.30
Sulfur (S)	25	42	1.30
Boron (B)	0.06	0.66	0.0611
Copper (Cu)	0.1	0.39	0.0061
Iron (Fe)	0.1	3.5	0.0627
Manganese (Mn)	0.08	1.15	0.0209
Molybdenum (Mo)	0.03	0.0275	0.0003
Zinc (Zn)	0.15	0.51	0.0078

NOTE: We do not add calcium to our formula as our local water supply contains 30ppm of calcium.

Grow Room Operations

Changing water, nutrient solution and adjusting pH.

Drain water and nutrient solution every three days.

Refill reservoirs with 50 liters of fresh water.

Add 250ml of Phenotype Screening Corporation Stock Nutrient Formulation mixture to 50 liters of water in each TurboGarden.

Additionally, add 1 ml Algae Control to 50 liters of water in each TurboGarden.

Adjust the pH to between 5.5 and 6.0 as required.

Checking photoperiod

Check timers daily to assure proper operation and that day/night photoperiod is set to fourteen hours of daylight.

Checking pump recycle timing

Check timers daily to assure proper operation and to assure that the pumps are set to turn on for one minute and then turn off for four minutes. This cycle should repeat constantly throughout the day and the night.

Check plants for signs of disease and pests.

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