

Bare Root Tissue Culture Plantlet Acclimatization Instructions

Step 1- Prepare Substrate

A) Mix nutrient solution (Clonex is preferred) at 1.5-2.0 EC

B) Soak sheet of 98 cell rockwool with nutrient solution and drain for 5-6 minutes. Target moisture mass is 2400-2800g.

C) Cut slit 1/2 way across cube and all the way through



Figure 1: Bare root plants upon delivery



Figure 2: Close-up of plantlets upon delivery



Figure 3: Draining the rockwool



Figure 4: Cutting the rockwool



Step 2- Place Propagules into substrate

A) Using forceps, place plantlets 1-2 cm deep into the rockwool. There must be **tight contact** between the callus end of the stem and the substrate. **Do not use the dibble hole!**

B) Place into Smarttray or plug flat so that plug stays tightly together. If you don't have a tray, you can use a rubber band or zip tie to hold the substrate tightly together.



Figure 5: Placing plantlet into substrate



Figure 6: An array of plantlets after placing them in plugs

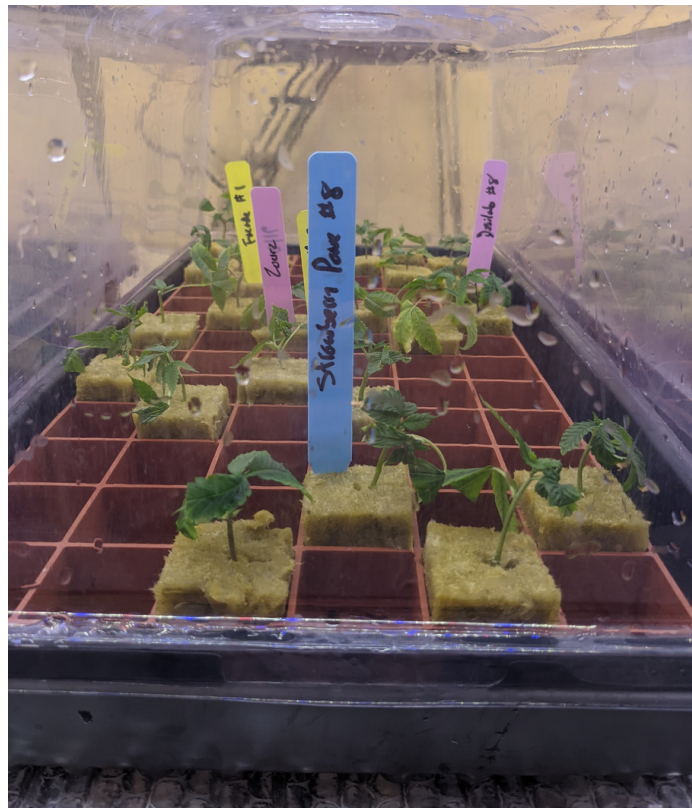


Figure 7: Plugged plantlets under dome and lights right after placing into substrate



Figure 8: Rooted plantlet 7 days after placing in substrate. This plant is ready for transplant and higher light levels.

Step 3- Place into clone rooting grow conditions

A) Place staggered or together in tray and place dome on top. 100-200 ppfd, 78-83F (25-28C), 65-80% RH

B) Vent as much as possible as long as they aren't wilted. Burp daily. After 3-5 days, remove the dome if no wilting is observed and you should see roots penetrating the cube. You may need to lightly moisten the cubes during this time, but do not soak or saturate them.

C) After 7-10 days, once roots are fully penetrating the cube, transplant into standard veg conditions.