Instructions for your Clone/Seed Kit

HOW TO CLONE FROM CUTTINGS

- Flush 40x40mm Cultilene® rockwool cube in luke warm water. For best results always use filtered or rain water.
- Using shears, take 10-15cm long cutting with 3-4 leaves. Stems should be approximately pencil thickness.
- 3 Generally the best clones are from firm stems higher up the parent plant, these have highest growth hormones (auxins).
- 4. Cut the parent plant no more than 30%. From now on use a scalpel and flame sterilize every 10 cuts.
- IMPORTANT STEPS 5-7. Cut quickly and put the entire cutting 5 in a bucket of pH 5.8-6.5 lukewarm water. Leave soaking for 30 minutes.
- Underwater, trim off two bottom leaves (one is okay), flush with 6 the stem. This node is where the roots grow from in the Cultilene® rockwool cube. Scratch 2cm off the stem to promote rooting.
- Final base cut must be taken underwater to stop air embolism 7. (bubbles). Cut at base of stem at 45°, 1cm under the node.
- Soak Cultilene® rockwool cubes in DutchMaster™ Gold APS 8 Cutting Nutrient and Spray.
- 9. Dip the cuttings into DutchMaster™ Clone Fast Replicator.
- Locate small hole in moist Cultilene® rockwool cube and push in 10 clone. Make small hole larger if necessary.
- 11. Spray on Ag-Grow Grow® or Nulife QuickStart as per instructions on the bottle.
- 12. Put your Cultilene® rockwool cube on base/drain tray and under clear lid at 75% humidity. Leave the vents open. Place in shaded sunlight, avoiding excessive heat. We recommend compact florescent lighting, favouring the growth spectrum.
- 13. Ideal root temperature is 25°C, use a heat pad if required. Foliage temperature should be between 20-22°C. Ventilate accordingly.
- 14. Cultilene® rockwool cube must not sit in water or roots will rot!
- 15. As Cultilene® rockwool cube dries out, re-water with 1/4 strength Ag-Grow Grow® nutrient solution at pH 5.8-6.5. Make a nutrient bath and dunk cube in water, until all stale air is expelled and roots are replensihed with fresh oxygen.
- 16. Healthy roots appear thick, white and hairy in 4-6 days. The best plants will be from these.
- 17. When roots appear at bottom of Cultilene® rockwool cube, plant the clone into your hydroponic media such as perlite, perlite/ vermiculite, coco peat or Cultilene® rockwool slab. Water with Ag-Grow Grow® nutrient solution at ½ to full strength or a good quality hydroponic nutrient of your choice.

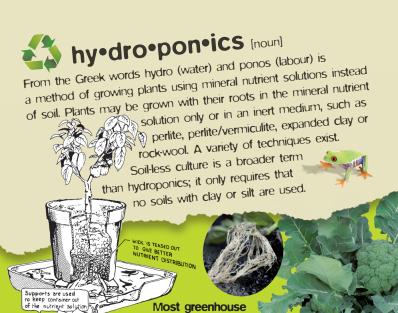




AQUAPONICS WA

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Visit www.hydroponicxpress.com.au for helpful hints and tips



HOW TO GROW FROM SEED

 Flush 40x40mm or 75x75mm Cultilene® rockwool cube in luke warm water. For best results always use filtered or rain water.

plants grown world wide grow in hydroponics or soil-less methods.

- a. For small seeds, locate small hole in 40x40mm Cultilene[®] rockwool cube. Push seed into moist cube (check seed packet for correct depth).
 - b. For large seeds such as beans, peas, cucumber etc, use 75x75mm Cultilene® rockwool cube. Fill hole with perlite or fine expanded clay, and plant seed directly into media. Plant seed in correct upright position. If unsure, plant horizontally.
- 3. Put your Cultilene® rockwool cube on base/drain tray and under clear lid at 75% humidity. Leave the vents open. Place in shaded sunlight, avoiding excessive heat. We recommend compact florescent lighting, favouring the growth spectrum.
- 4. Cultilene® rockwool cube must not sit in water or roots will rot!
- 5. Germination occurs in 2-7 days. Ideal seed temperature is 25°C.
- 6. As Cultilene® rockwool cube dries out, re-water with ¼ strength Ag-Grow Grow® nutrient solution. Make a nutrient bath and dunk cube into solution, until all stale air is expelled and roots are replenished with fresh oxygen.
- 7. When bottom roots appear, plant the seedling into your hydroponic media such as perlite, perlite/vermiculite, coco peat or Cultilene® rockwool slab. Water with Ag-Grow Grow® nutrient solution at ½ to full strength or a good quality hydroponic nutrient of your choice.

