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# CHAPTER 1: CLONING 101

## Simple 3-Step Guide for All Growers

**Fast and Easy with Clear Instructions & Pictures!**

***Video Version and All 10 Chapters Available at [BensNursery.com](https://BensNursery.com)***

CH 2 – VEGETATIVE CYCLE 101	CH 5 – ENVIRONMENTAL CONTROLS	CH 8 – LIGHTING & MEASUREMENT
CH 3 – FLOWERING CYCLE 101	CH 6 – NUTRIENT MIXING & FEED	CH 9 – HARVEST, DRY, CURE 101
CH 4 – MOTHER PLANTS 101	CH 7 – FOLIAR SPRAY/ PEST MGMT	CH 10 – SOURCING NEW STRAINS

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## **CLONING 101 – Step 1/3 – PREP ROCKWOOL**

- Needs:**
- 1. Grodan 1.5" Rockwool Cubes (45 Pack)**
  - 2. Calibrated PH Pen, TDS Pen (Oakton)**
  - 3. Hydroguard (Botanicare)**
  - 4. Clonex Clone Solution (Hydrodynamics)**
  - 5. PH Down (GH)**



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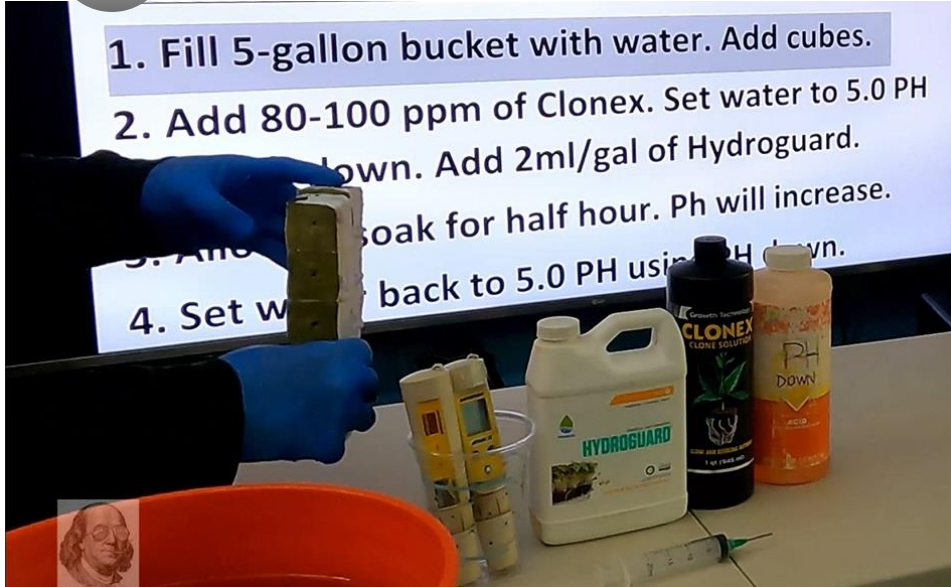
## **CLONING 101 – Step 1/3 – PREP ROCKWOOL**

### **Procedure:**

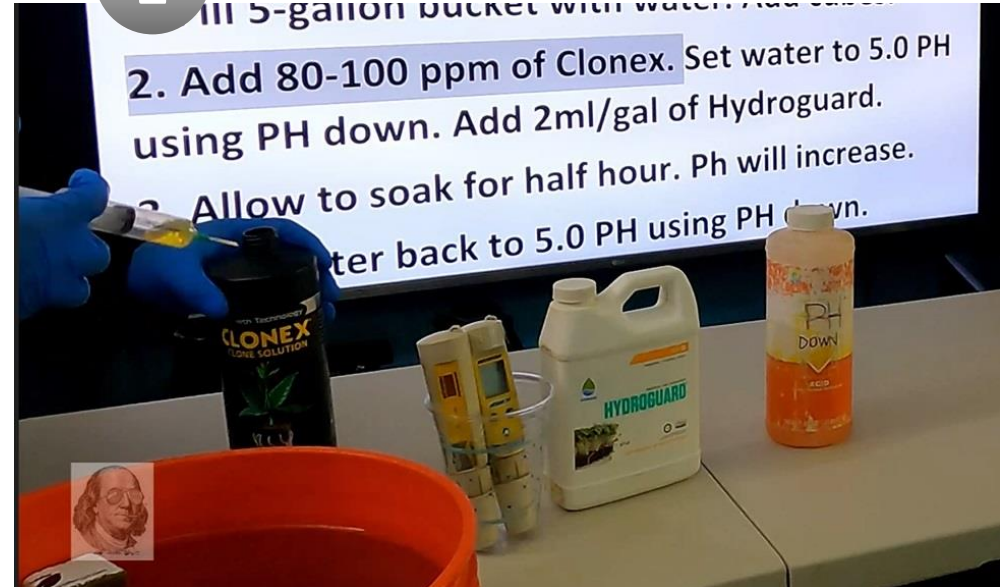
- 1. Fill 5-gallon bucket with water. Add cubes.**
- 2. Add 80-100 ppm of Clonex. Set water to 5.0 PH using PH down. Add 2ml/gal of Hydroguard.**
- 3. Allow to soak for half hour. Ph will increase.**
- 4. Set water back to 5.0 PH using PH down.**



1



2

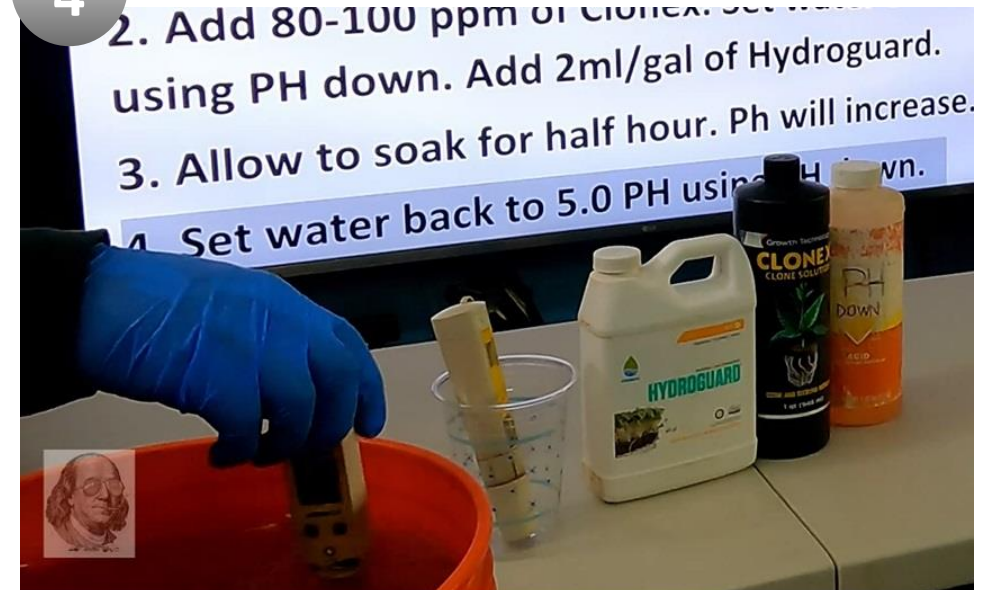


3

# Half-Hour



4



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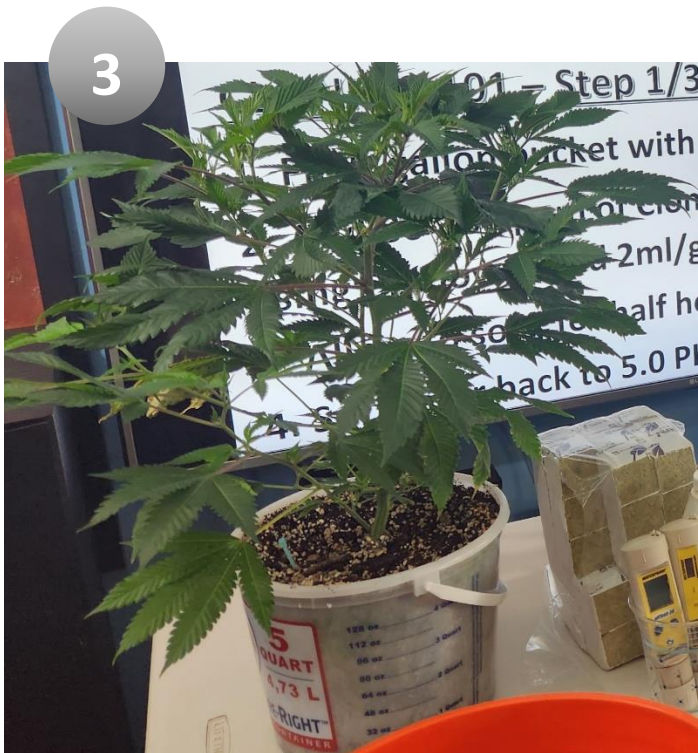
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## **CLONING 101 – Step 2/3 – Cut Mother Plants**

- Needs:**
- 1. Room Temp: 75-78F (SensorPush HT1)**
  - 2. Room RH: 70-75% (Use Humidifier)**
  - 3. Mother Plant**
  - 4. Clean Scissors (Fiskars Micro-Tip)**
  - 5. Prepped & Soaked Rockwool Cubes**





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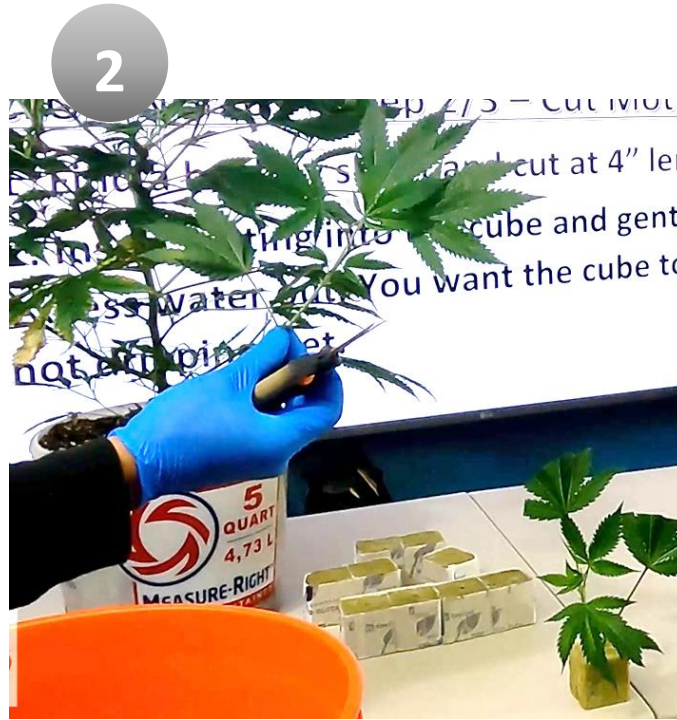
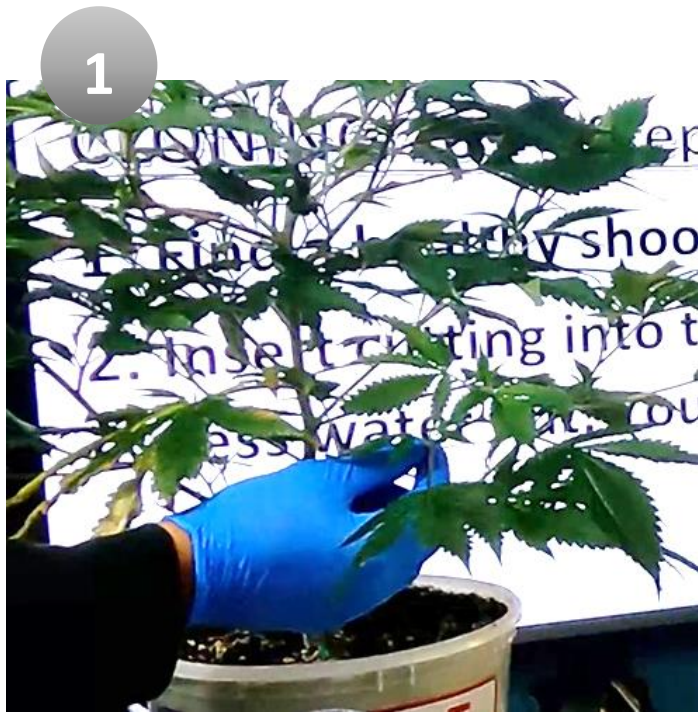
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## **CLONING 101 – Step 2/3 – Cut Mother Plants**

### **Procedure:**

- 1. Find a healthy shoot and cut at 4" length.**
- 2. Insert cutting into the cube and gently squeeze excess water out. You want the cube to be moist, not dripping wet.**





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## **CLONING 101 – Step 3/3 – Lights and Feed**

**Needs: 1. Room Temp: 75-78F    Room RH: 70-75%**

**2. Light Meter (HS1010)**

**3. LED or Fluorescent Lighting**

**4. Feed: 90 ppm Clonex, 2ml/g Hydroguard**

**Set to 5.0 PH**

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## **CLONING 101 – Step 3/3 – Lights and Feed**

### **Procedure:**

- 1. Give clones 100-200 FC of light 24/7.**
- 2. Water them once a day by dipping the cubes and squeezing excess water from cubes. 90 ppm Clonex, 2ml/g Hydroguard. Set to 5.0 PH**
- 3. Clones will have roots showing in 10-14 days on average using this method.**



