How to 3D Print and Use the Hydroponic Microgreens Tray

Step 1: 3D Printing the Tray

For the best results, use **food-safe PETG** to ensure water resistance and safety.

Recommended Print Settings:

- **Material:** PETG (food-safe recommended for hydroponic use)
- **Layer height:** 0.2mm
- **Infill:** 15-20%
- **Supports:** Not needed
- **Flow rate:** Increase to **1.02** for better layer adhesion and watertightness
- **Seam alignment:** Use **scarf seam** to prevent leaks

After printing, wash the tray thoroughly with warm water.

Step 2: Preparing the Seeds (Optional But Recommended)

For faster and more even germination, soak seeds in water for **2-5 hours** before planting.

Step 3: Planting the Seeds

1. Place the tray over a **bowl** so that the bottom stays in contact with moisture.
2. Evenly **spread the seeds** across the surface.
3. Lightly **mist with water** to keep them damp.

Step 4: Initial Germination (First Few Days)

1. **Cover with a lid** to block light and encourage sprouting.
2. **Mist daily** to keep moisture levels high.
3. Ensure the **bowl underneath stays full of water**.
4. Carefully **rinse under running water** once a day to prevent mold.

Step 5: Growth Phase (Once Sprouts Lift the Lid)

1. **Remove the lid** and place in indirect light.
2. Keep the **bowl full of fresh water** at all times.
3. **Change the water daily** for clean, oxygenated roots.
4. Continue **rinsing under running water** to maintain healthy growth.

Step 6: Watch Your Microgreens Grow!

Keep the tray hydrated, and enjoy the process of clean, soil-free growing.