



Reef Geeks™ PhytoFactory Kit

Quick Start & Care Guide

(Designed to be used with the Reef Geeks™ Pro Series)



STEP 1 — Clean Everything

Product: Reef Geeks™ CultureClean

1. Wash the culture container, lid, airline, and tools with warm water
2. Rinse thoroughly (no soap residue)
3. Spray all items with CultureClean
4. Leave 1 minute, then air dry or wipe dry with a clean paper towel

✓ Clean equipment = fewer crashes.



STEP 2 — Prepare Culture Water

Products: Reef Geeks™ SteriMix + Dechlor Pro

1. Mix R.O. water with marine salt to 30-35ppm
 2. Sterilise the water using SteriMix
 - Contact time: 5–10 minutes
 3. Neutralise chlorine with Dechlor Pro
 - 1 mL per litre
 - Mix well, wait ~1 minute
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STEP 3 — Fill & Aerate

1. Fill the culture container $\frac{2}{3}$ full of prepared water
 2. Install airline tubing and air valve
 3. Set airflow to strong bubbling (no splashing)
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STEP 4 — Add Starter & Nutrient

Products: Live starter culture + PhytoGrow

1. Add 500 mL live phytoplankton starter
2. Add PhytoGrow: 1 mL per litre of culture volume
3. Do not add more nutrients during the first growth cycle

💡 STEP 5 — Light & Temperature

- Light: 16 hours ON / 8 hours OFF
- Keep light close, but not touching the container
- Temperature: 20–26°C

✅ Setup complete — now let it grow.

🌱 What to Expect

- Days 1–3: Light green, thin
 - Days 4–7: Darker green, thicker
 - Healthy phyto smells fresh / neutral, never foul
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🔄 Ongoing Maintenance (After Day 7)

1. Add PhytoGrow: 1 mL per litre
 2. Top up with freshly prepared, sterilised & dechlorinated water
 3. Fill to ~30 mm below the rim
 4. Allow culture to re-darken over 7–10 days
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🥬 Harvesting

1. When culture is dark green & opaque:
 - Harvest ~70%
 - Leave ~30% as the starter
2. Store harvested phyto in the fridge
3. Shake gently every few days
4. Remember to sanitise storage containers
5. Clean and sanitise PhytoFactory after 4 harvests (around every 4 weeks)

🔄 Repeat weekly for continuous production.

⚠️ Troubleshooting

- **Smells bad / turns brown:** contamination → restart
- **Not getting darker:** check light, nutrients, airflow
- **Foaming:** reduce airflow slightly

Sterilisation is the #1 factor in success.

🔄 **Workflow** 🧴 **CultureClean** → 🥬 **SteriMix** → 💧 **Dechlor Pro** → 🌱 **PhytoGrow**

Simple • Repeatable • Reef-safe