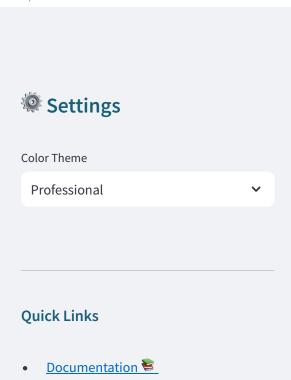
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# **Professional Hydroponic Calculator**

#### **Enterprise-Grade Nutrient Management System**

Calculator Strain Selection Recipe Instructions Calculation History

## **Detailed Mixing Instructions**



### **▲** Safety Guidelines

- Always wear appropriate PPE (gloves, eye protection)
- Maintain proper ventilation
- Keep detailed records of all measurements
- Store nutrients according to manufacturer guidelines
- Clean all equipment after use

#### **Preparation Phase**

- 1. Clean all mixing equipment thoroughly
- 2. Calibrate pH and EC/PPM meters

- 3. Ensure water temperature is between 65-75°F (18-24°C)
- 4. Record starting water parameters (pH, EC/PPM)

#### **Primary Mixing Phase**

- 1. Fill reservoir to 75% of target volume
- 2. Start circulation/aeration system
- 3. Add Cal-Mag first (if using)
- 4. Wait 15 minutes while circulating
- 5. Add Part A nutrients
- 6. Circulate for 3-5 minutes
- 7. Add Part B nutrients
- 8. Continue circulation for 5 minutes

#### **Supplement Addition**

- 1. Add any pH buffers if needed
- 2. Add organic supplements
- 3. Add beneficial bacteria/enzymes
- 4. Continue circulation for 10 minutes

#### rinal Adjustments

- 1. Top off to final volume
- 2. Check EC/PPM levels
- 3. Adjust pH to target range
- 4. Allow solution to circulate for 15-30 minutes
- 5. Take final readings and record

#### **Nutrient-Specific Guidelines for Generic**

Component

Cal-Mag	1 m	1 ml/gal		A	add first, allow to mix	
Base A	3 ml/gal		2	Ad	Add slowly while circulating	
Base B	3 ml,	3 ml/gal		Wa	Wait 5 minutes after Base A	
Supplements		Varies		4	Add last, one at a time	

## **↑** Troubleshooting Guide

High EC Dilute with fresh water, recheck after circulation 

Professional Hydroponic Calculator - a Hugging Face Space by sp103107

Issue