



# **STOCK CONCENTRATE**

## **Mixing Instructions**

- 1. Start with clean stock tanks marked at target volume.
- **2.** Add **RO** water to 50% of target volume; begin agitating the tank.
- 3. Add fertilizer over 5 minutes, while continuing to agitate the tank.
- **4.** Add **RO** water to target volume; mix for 10 more minutes.
- 5. Validate and adjust stock tank as necessary.

# 4-3-3 Stock Concentrate Notes

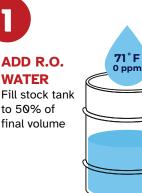
**4-3-3 Stock Concentrate** refers to the number of 11.3 kg bags of each product that are added to a stock concentrate drum - Part A with four 11.3 kg bags per 189 Liters, Part B with three 11.3 kg bags per 189 Liters, and Bloom with three 11.3 kg bags per 189 Liters. Mixing with the 4-3-3 method allows each fertilizer part to be injected equally. This method is best for situations where the injection equipment requires higher concentrations of stock concentrate and/or lower injection ranges.

3-2	-2 STO	CK RA	TES	3-2-2 VALIDATION			
Tank	Part	liters	kg	g/L	ml/L	Validation EC	
1	A	189	34	180	20	4.4	
2	В	189	22.7	120	20	2.3	
3	Bloom	189	22.7	120	20	1.8	

## VALIDATION INSTRUCTIONS:

- Remove exactly 20 ml of well-mixed stock concentrate and add to 1 liter of RO water.
- Mix and check EC against validation chart. Adjust stock concentrate strength as necessary to match validation EC
- Repeat for each stock concentrate, validating against EC.

## STOCK CONCENTRATE





ADD FRONT ROW & MIX Start agitation, add total g/L for final volume, mix for 5 minutes



**FILL** Continue agitation while

filling to final

volume, mix for

10 more minutes





METRIC

# **4-3-3 STOCK CONCENTRATE FEED CHARTS**

## STANDARD STRENGTH

Chart Units	Phase Phase Recipe		Veg/Moms	Week 1-2	Week 3-5	Week 6-8/9	Final 1-2 Weeks
mL/L			Veg	Stretch	Stack*	Swell	Ripen
Total F(		Total EC	2.6	2.4	2.2	2.0	1.6
Base Fertilizer	Stock Rate	Total 20	2.0	2.4			
PART A	224 g/L	mL/L	6.2	4.8	4.1	3.2	2.1
		Part A EC	1.7	1.3	1.1	0.9	0.6
PART B	150 g/L	mL/L	6.2	4.8	4.1	3.2	3.3
		Part B EC	0.9	0.7	0.6	0.5	0.5
BLOOM	150 g/L	mL/L		3.4	4.1	5.7	4.9
	130 9/2	Bloom EC		0.4	0.5	0.7	0.6

**Optional Inputs:** 

FRONT ROW Si (ml)	53 mL/L	mL/L	1.9	1.9	2.5	2.5	2.5
PhosZyme	42 g/L	mL/L	2.5	2.5	2.5	2.5	2.5
	·- 3· -	PhosZymeEC	0.1	0.1	0.1	0.1	0.1

\* "Stack" recipe can be used from start to finish of the flower cycle.

## HIGH STRENGTH

Chart Units	Phase Phase Recipe		Veg/Moms	Week 1-2	Week 3-5	Week 6-8/9	Final 1-2 Weeks
mL/L			Veg	Stretch	Stack*	Swell	Ripen
Total EC		3.0	3.0	2.7	2.4	1.8	
Base Fertilizer	Stock Rate		3.0	3.0	2.1	2.4	1.0
PART A	224 g/L	mL/L	7.2	6.0	5.1	3.9	2.3
		Part A EC	2.0	1.7	1.4	1.1	0.6
PART B	150 g/L	mL/L	7.2	6.0	5.1	3.9	3.7
FARTB		Part B EC	1.0	0.9	0.7	0.6	0.5
BLOOM	150 g/L	mL/L		4.2	5.1	6.9	5.6
	100 9/2	Bloom EC		0.5	0.6	0.8	0.6

Optional Inputs:

FRONT ROW Si (ml)	53 mL/L	mL/L	1.25	1.25	1.25	1.88	2.50
PhosZyme	42 g/L	mL/L	2.5	2.5	2.5	2.5	2.5
	5	PhosZymeEC	0.1	0.1	0.1	0.1	0.1

\* For facilities that want to run one recipe throughout flower, use "Stack" recipe.

ADDITIVE USAGE RATES:					
Additive Usage Rate Notes					
Front Row Si	0 - 0.13 ml/L	Si usage rate depends on feed EC, please refer to SI vs EC Table.			
Triologic	0.26-0.53 ml/L	Recommended to be used 1x per week.			
BioFlo	8 ml/L	Use as necessary to remove biofilm from irrigation lines.			

#### **FEED CHART NOTES:**

These feed charts are not a prescription, but an example of the general ranges and relationship of EC and recipes that can be used. Each facility and cultivation methodology will require customization of EC values. See the "EC Considerations" section on the Supplemental Information page of our brochure.

