## SUPPLEMENTAL TABLES

## Supplemental Table 1. Preparation of Simulated Xylem Media (SXM)

Ingredient	Amount for 1 L	Amount for 0.5 L	
Pectin from citrus peel	2 g	1 g	
Tryptone/Peptone from casein	4 g	2 g	
50 x AspA	20 mL	10 mL	
$1M MgSO_4 x 7 H_2O$ or $1M$ anhydrous MgSO4	2 mL	1 mL	
1000x Trace elements (TE) (add sterile to ensure reusability of stock solution)	1 mL	0.5 mL	
(Agar) only added for plates	(20 g)	(10 g)	
dH <sub>2</sub> O	Add to 1 L	Add to 0.5 L	

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Supp	lemental	Table 2.	Prep	Daration	01	<b>I</b> race	Elem	ents	IOr	SAN	1

Steps	Ingredient	Amount for 200mL	Amount for 100mL			
Preparation of Solution 1:						
1	$FeSO_4 \ge 7 H_2O (Ferrous sulphate) \qquad 1.0 g$		0.5g			
2	EDTA (372.24 g/mol) (EDTA = $C_{10}H_{14}N_2Na_2O_8 \ge 2 H_2O$ )	10.0 g	5.0g			
3	KOH pellets (solution should turn golden-yellow)	Use to adjust pH to around 5.5	Use to adjust pH to around 5.5			
4	dH <sub>2</sub> O	To volume of 80ml	To volume of 40ml			
Preparation of Solution 2:						
5	ZnSO <sub>4</sub> x 7 H <sub>2</sub> O (287.54 g/mol) (Zinc sulphate)	4.4 g	2.2g			
6	H <sub>3</sub> BO <sub>3</sub> (61.83 g/mol) (Boric acid)	2.2 g	1.1g			
7	MnCl <sub>2</sub> x 4 H <sub>2</sub> O (197.91 g/mol) (Manganous chloride)	1.0 g	0.5g			
8	CoCl <sub>2</sub> x 6 H <sub>2</sub> O (237.39 g/mol) (Cobaltous chloride)	0.32 g	0.16g			
9	CuSO <sub>4</sub> x 5 H <sub>2</sub> O (249.68 g/mol) (Cupric sulphate)	0.32 g	0.16g			
10	**(NH4)6M07O24 x 4 H2O MUST BE DISSOLVED IN dH2O before addition (Ammonium molybdate)	0.22 g	0.11g			
11	Combine solutions 1 and 2					
12	KOH pellets (solution should turn purple)	) Use to adjust pH to around 5.5 Use to adjust p around 5.4				
13	dH <sub>2</sub> O	To a final volume of 200 mL	To a final volume of 100mL			

## Supplemental Table 3. Preparation of 50x AspA

Ingredient	Amount for 1 L	Amount for 0.5 L
KNO <sub>3</sub> (potassium nitrate)	300 g	150 g
KCl (potassium chloride)	26 g	13 g
KH <sub>2</sub> PO <sub>4</sub> (potassium phosphate)	76 g	38 g
dH <sub>2</sub> O	Add to 1 L	Add to 500 mL