S1 Table. Formulas of nutrient solution.

N sufficient		N deficient	
Component	Concentration	Component	Concentration
Ca(NO ₃) ₂ ·4H ₂ O	2.5mM	$Ca(NO_3)_2 \cdot 4H_2O$	0.25mM
KNO ₃	2.5mM	KNO_3	0.25mM
KH_2PO_4	0.5mM	CaCl2	2.25mM
MgSO ₄ ·7 H ₂ O	1.4mM	KCl	2.25mM
H_3BO_3	50uM	KH_2PO_4	0.5mM
MnSO ₄ .H ₂ O	10μm	MgSO ₄ ·7 H ₂ O	1.4mM
ZnSO ₄ .7H ₂ O	0.76µm	H_3BO_3	50uM
CuSO ₄ .5H ₂ O	032μm	MnSO ₄ .H ₂ O	10μm
$(NH_4)_6Mo_7O_{24}.4H_2O$	0.016µm	$ZnSO_4.7H_2O$	0.76μm
Na2Fe-EDTA	$0.077 \mu m$	CuSO ₄ .5H ₂ O	032μm
		$(NH_4)_6Mo_7O_{24}.4H_2O$	0.016µm
		Na2Fe-EDTA	$0.077 \mu m$
P sufficient		P deficient	
Component	Concentration	Component	Concentration
$Ca(NO_3)_2 \cdot 4H_2O$	2mM	$Ca(NO_3)_2 \cdot 4H_2O$	2mM
NH4NO3	0.5mM	NH4NO3	0.5mM
KNO ₃	2.5mM	KNO_3	2.5mM
KH_2PO_4	0.5mM	KH_2PO_4	0.01mM
MgSO ₄ ·7 H ₂ O	1.4mM	K_2SO_4	0.26mM
H_3BO_3	50uM	MgSO ₄ ·7 H ₂ O	1.4mM
MnSO ₄ .H ₂ O	10μm	H_3BO_3	50uM
ZnSO ₄ .7H ₂ O	0.76µm	MnSO ₄ .H ₂ O	10μm
CuSO ₄ .5H ₂ O	032μm	$ZnSO_4.7H_2O$	0.76μm
7 2		•	
(NH ₄) ₆ Mo ₇ O ₂₄ .4H ₂ O	0.016µm	CuSO ₄ .5H ₂ O	$032\mu m$
· -	0.016μm 0.077μm	CuSO ₄ .5H ₂ O (NH ₄) ₆ Mo ₇ O ₂₄ .4H ₂ O	032μm 0.016μm

All of these formulas were modified from Hoagland solution [23].