

**Supplementary Table S2:** Composition of the nutrient solution derived from Hoagland nutrient solution and adapted to ensure the plants’ mineral needs during the experiment. Elemental concentrations were kept balanced in solution to provide 40 kg N ha-1 to ensure a non-limiting mineral condition for all the experiments.

Salts	Salt concentrations (µM)	Nutrients	Elemental concentrations in solution (µM)	input kg ha <sup>-1</sup>
KNO <sub>3</sub>	1000	N	3500	40
Ca(NO <sub>3</sub> ) <sub>2</sub> +4H <sub>2</sub> O	1250	Mg	400	8
Si(OH) <sub>4</sub>	900	P	200	5
HCl	600	S	507	13
CaCl <sub>2</sub> + 2H <sub>2</sub> O	500	K	1500	48
MgSO <sub>4</sub>	400	Ca	2110	69
CaCO <sub>3</sub>	360	B	10	0.09
KH <sub>2</sub> PO <sub>4</sub>	200	Cl	2001	58
Na <sub>2</sub> SiO <sub>3</sub>	200	Mn	3	0.13
K <sub>2</sub> SO <sub>4</sub>	100	Fe	100	5
KCl	100	Ni	0.15	0.007
NaFe-EDTA				
3H <sub>2</sub> O	50	Cu	0.7	0.04
NaFe-EDDHA	50	Zn	3	0.16
H <sub>3</sub> BO <sub>3</sub>	10	Mo	0.056	0.004
MnSO <sub>4</sub>	3	Na	500	9
ZnSO <sub>4</sub>	3	Al		
CuSO <sub>4</sub>	0.7	Si	1100	25
NiCl <sub>2</sub>	0.15	V		
CoCl <sub>2</sub>	0.1	Co	0.1	0.005
Na <sub>2</sub> SeO <sub>4</sub>	0.01	Se	0.01	0.001
(NH <sub>4</sub> ) <sub>6</sub> Mo <sub>7</sub> O <sub>24</sub>	0.008			