

Supplemental Table S1 Salt concentrations in the liquid culture medium

Compound	Molecular Weight	Concentration in the stock solution (x 200)		Concentration in the medium
		mM	g/L	mM
$\text{NaH}_2\text{PO}_4 \cdot 2\text{H}_2\text{O}$	156.01	300	46.8	1.5
$\text{Na}_2\text{HPO}_4 \cdot 12\text{H}_2\text{O}$	358.14	50	17.9	0.25
$\text{Ca}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$	236.15	400	94.5	2
KNO_3	101.1	600	60.7	3
$\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$	246.47	300	74.0	1.5
$\text{Na}_2 \cdot \text{EDTA} \cdot 2\text{H}_2\text{O}$	372.24	11.7	4.35	0.0585
$\text{NaFeEDTA} \cdot 3\text{H}_2\text{O}$ (FeIII)	385.06	1.9	0.732	0.00950
$\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$	197.9	2.06	0.408	0.0103
ZnCl_2	136.29	0.202	0.0275	0.00101
$\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$	170.48	0.192	0.0327	0.000960
H_3BO_3	61.83	6	0.371	0.0300
$(\text{NH}_4)_6\text{Mo}_7\text{O}_{24} \cdot 4\text{H}_2\text{O}$	1235.86	0.0048	0.00593	0.0000240
$\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$	237.93	0.026	0.00619	0.000130

Supplemental Table S2
Element concentrations in the liquid culture medium

Element	Concentration in the stock solution (x 200)	Concentration in the medium
	mM	mM
K	600	3
Na	423	2.12
Ca	400	2
P	350	1.75
S	300	1.5
N	2000	10
Mg	300	1.5
B	6	0.03
Cl	4.96	0.0248
Mn	2.06	0.0103
Fe	1.74	0.00870
Zn	0.202	0.00101
Cu	0.192	0.000959
Mo	0.0336	0.000168
Co	0.0260	0.000130

Supplemental Table S3 Primers used for quantitative RT-PCR

Category	Gene name	AGI	Forward primer 5'--3'		Reverse primer 5'--3'		Reference
Salt stress response	<i>NHX1</i>	AT5G27150	NHX1_qF	CTACCTATTACCGCACCAGAACG	NHX1_qR	CTCAATGAACGAGTCTTGGTCC	48
	<i>SLAH1</i>	AT1G62280	SLAH1_qF	TCTTCAATGTCCTGGTCTG	SLAH1_qR	ATTGCTGTTTGCTGCTGTC	49
	<i>SULTR1;2</i>	AT1G78000	SULTR1;2_qF	GGATCCAGAGATGGCTACATGA	SULTR1;2_qR	TCGATGTCCGTAAACAGGTGAC	50
S assimilation	<i>APR_2</i>	AT1G62180	APR_2_qf	GCTTCAACTCTAATTGCTCCTGAAG	APR_2_qR	CAATGCAACATCTTCAGCTCCACT	
	<i>APR_3</i>	AT4G21990	APR_3_qF	GGAATCCATTGTTGCTTCTGAGGT	APR_3_qR	CAGAGCAACATCTTCAGCTCCACT	

Supplemental Table S4 Salt composition of Hoagland's medium

Component	Concentration of stock solution (mM)	Grams of salts (g)	Volume of stock solution per liter (ml)
KNO ₃	1000	101.1	6
Ca(NO ₃) ₂ ·4H ₂ O	1000	236.16	4
NH ₄ H ₂ PO ₄	1000	115.08	2
MgSO ₄ ·7H ₂ O	1000	246.48	1
KCl	25	1.864	2
H ₃ BO ₃	12.5	0.773	2
MnSO ₄ ·H ₂ O	1	0.169	2
ZnSO ₄ ·7H ₂ O	1	0.288	2
CuSO ₄ ·5H ₂ O	0.25	0.062	2
H ₂ MoO ₄ (85% MoO ₃)	0.25	0.04	2
*Na·Fe·DTPA (10% Fe)	53.7	30	0.3-1

*Note: This should be avoided in salinity stress treatment imposition.