

Supplementary Table S1. Micronutrient accumulation in spinach (cv. Raccoon) irrigated with waters ranging from 20-80 meq L⁻¹ of NaCl and three potassium (K⁺) concentrations. Data are means (one plant per pot) with n=2-5 for roots, and 4-5 for shoots. K⁺ was applied as KNO₃ or KCl. Numbers within brackets were not used for statistics of average data in table.

Treatment	NaCl (meq L ⁻¹)	K ⁺	EC (dS m ⁻¹)	Mn	Cu	Zn	Fe
Roots							
T0 (control)	2.00	3.00	1.40	80.7baβ	6.2ba	34.2a$\beta\gamma$	319.4a$\alpha\beta$
T1	20.00	3.00	3.40	79.1bA	6.5bA	30.1aA	198.8aA
T2	20.00	5.00	3.70	(105.50)	(7.20)	(46.40)	(188.60)
T3	20.00	7.00	3.80	54.8aA	5.5aA	28.1aB	220.5aA
Avg (T1-T3)				67.0β	6.0α	34.9γ	209.7β
T4	40.00	3.00	5.60	139.0aA	10.3aA	43.7aA	479.8aA
T5	40.00	5.00	6.00	99.0aA	10.1aA	40.1aA	342.0aA
T6	40.00	7.00	6.00	95.9aA	7.5aA	40.7aA	320.8aA
Avg (T4-T6)				111.3α	9.3α	41.5aβ	380.9α
T7	80.00	3.00	9.30	130.4aA	7.8abA	57.9aA	374.1aA
T8	80.00	5.00	9.20	103.8aA	7.5aA	45.8aA	369.7aA
T9	80.00	7.00	9.80	97.0aA	6.2aA	47.0aA	280.3aA
Avg (T7-T9)				110.4α	7.2α	50.2α	341.4aβ
Shoots							
T0 (control)	2.00	3.00	1.40	143.5a$\alpha\alpha$ β	9.2aβ	71.7aα	205.4aα
T1	20.00	3.00	3.40	148.5aA	11.7aA	113.0aA	162.8aA
T2	20.00	5.00	3.70	(274.4)	(16.80)	(188.3)	(210.9)
T3	20.00	7.00	3.80	105.8bA	12.1aA	98.5aA	216.0aA
Avg (T1-T3)				127.2β	11.9α	105.8α	189.4α
T4	40.00	3.00	5.60	189.8aA	10.1aA	90.1aA	173.0aA
T5	40.00	5.00	6.00	206.4aA	10.6aA	81.7aA	179.4aA
T6	40.00	7.00	6.00	130.5bA	9.5aA	65.1aA	185.3aA
Avg (T4-T6)				175.6aβ	10.1β	79.1α	179.2α
T7	80.00	3.00	9.30	210.6aA	10.4aA	97.5aA	180.7aA
T8	80.00	5.00	9.20	171.3aA	11.2aA	96.5aA	159.9aA
T9	80.00	7.00	9.80	196.1aA	9.0aA	84.0aA	190.4aA
Avg (T7-T9)				192.7α	10.2aβ	92.7α	177.0α

Lowercase letters show significant ($P \leq 0.05$) difference among different sodium (Na) treatments within a tissue type and a potassium (K) treatment. Capital letters indicate significant ($P \leq 0.05$) difference among the three K treatments within a tissue type at the same NaCl treatment level. Greek letters show average (Avg) significant ($P \leq 0.05$) differences among different sodium (NaCl) treatments within a tissue type.

Supplementary Table S2. Characterization of primers (5'-3') used to evaluate expression analysis of target genes.

Gene	Primer (5' – 3')
SoActdf-1F	CTTTTTCATTGCATGGTCCCC
SoActdf-1R	CTTGAATACCATCCAGCTCTCTC
SoActin-1F	GTGGTCGTACCACAGGTATC
SoActin-1R	AAGATCCAAACGGAGGATGG
SoAKT1-1F	GATGCACTAAATTAGTTTGTGTGACT
SoAKT1-1R	TGAAATGATAGAGCGATCCAAAGT
SoERF1-2F	GGAGATGAACTATGAGTTTGGAATG
SoERF1-2R	CCCAAATACTTATTCTTCCTTATAGAAAGT
SoERS1-1F	GGGACTGAGTTAACACCTGAA
SoERS1-1R	GGCTTTATCAAATGAATCACATCAC
SoHKT1-7F	GGGAAATTTCGTCAAGAAAGATGAG
SoHKT1-7R	CCCAGAAACGGTCACAACTA
SoNHX1-1F	ATTTGTGAGCGATAGTCCTGG
SoNHX1-1R	AGTTCATTAACCAGGACAAGGG
SoNHX2-1F	AGAGTAACAACCAAGCATGCT
SoNHX2-1R	TATCGCTCACAAATCTCCATTTC
SoSAL1-1F	CTTCCCCAGTCAAGGTCAAT
SoSAL1-1R	GCTACTTAGGTCATGGGAAGAG
SoSOS1-1F	AGCCAAGATGGTTCTGGATATAAA
SoSOS1-1R	GCTGGAGCCATGTCAATCA
SoSOS2-1F	CTTAGATCTTCAAAGGCAAAGTTGAT
SoSOS2-1R	TCCGTTGTAATGGTGA ACTCC
SoSOS3-1F	GCTTCTGAAACATGTTTTTCTGTG
SoSOS3-1R	GTTGATCAGGCCTTCATCCA