

**Table S1** Content (mmol/kg FW) of selected free amino acids in lettuce leaves and roots from both the control and multicontaminated soil. Values represent means  $\pm$  SD. Asterisks indicate significant differences ( $p \leq 0.05$ ) between treatments (Control  $\times$  Multicontamination) for lettuce organs based on Fisher's LSD test.

Parameter	Control	Multicontamination
Phenylalanine – leaves	0.045 $\pm$ 0.003	0.100 $\pm$ 0.002*
Tryptophan – leaves	0.042 $\pm$ 0.002	0.255 $\pm$ 0.012*
Tyrosine – leaves	0.050 $\pm$ 0.002	0.134 $\pm$ 0.003*
Histidine – leaves	0.072 $\pm$ 0.002	0.272 $\pm$ 0.014*
Lysine – leaves	0.105 $\pm$ 0.007	0.346 $\pm$ 0.013*
Phenylalanine – roots	0.030 $\pm$ 0.004	0.030 $\pm$ 0.004
Tryptophan – roots	0.068 $\pm$ 0.010	0.077 $\pm$ 0.008
Tyrosine – roots	0.053 $\pm$ 0.003	0.041 $\pm$ 0.002*
Histidine – roots	0.061 $\pm$ 0.005	0.081 $\pm$ 0.010*
Lysine - roots	0.084 $\pm$ 0.002	0.108 $\pm$ 0.006*