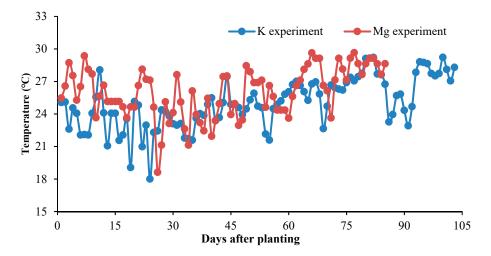
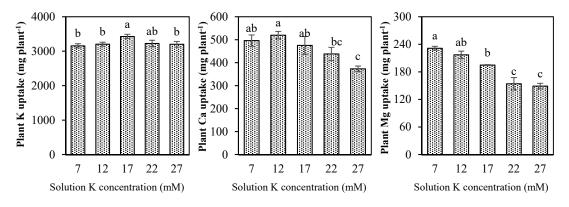
Supplementary Material



Supplementary Figure S1 Mean daily temperatures (recorded every two hours) in the vegetation period during the Mg and K experiments in the greenhouse.



Supplementary Figure S2 Effects of K concentrations in solution on plant potassium (K), calcium (Ca), and magnesium (Mg) uptake by cherry tomato plants. Values are means \pm standard error (SE) among three replicates. For each nutrient, means with the same letters did not differ significantly at P < 0.05.

Substrate type	Growth period	Critical leaf Mg concentration	Evaluation indicator	References
Soils	Anthesis	4.0 g kg ⁻¹	Plant growth	Reuter et al., 1986
Soils	First harvest	3.0 g kg ⁻¹	Plant growth	Reuter et al., 1986
Soils	Second harvest	4.0 g kg ⁻¹	Plant growth	Piggott,1970
Soils	First harvest	3.2 g kg ⁻¹	Plant growth	Davidescu et al.,1982
Soils	Harvest	3.9 g kg ⁻¹	Dry matter accumulation	Hauer-Jákli and Tränkner (2019)
Coconut coir	First harvest	4.38 g kg ⁻¹	Dry matter formation	This study
Coconut coir	Second harvest	4.50 g kg ⁻¹	Dry matter formation	This study

Table S1. Critical leaf Mg concentrations for tomato growth in different substrates.