

Thriving on half: low nutritional demand in *Stephanopodium engleri* involves adjustments in photosynthetic apparatus functionality

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Supplemental Table 1. Physical and chemical composition of soil used in the cultivation of *Stephanopodium engleri* under different nutritional sources during 120 days. (1) CS = commercial substrate, (2) CS+S = commercial substrate + soil, (3) C = control, (4) NPK+M = NPK solution with micronutrients, (5) NPK–M = NPK solution without micronutrients, (6) NPK 1/2 = NPK half-strength solution, (7) PK = nitrogen-free solution, (8) NP = potassium-free solution and (9) NK = phosphorus-free solution; CEC = cation exchange capacity (n = 8 per treatment).

Soil composition	Treatments								
Physical analysis	CS	CS+S	C	NPK+M	NPK–M	NPK 1/2	PK	NP	NK
Sand (g/kg ⁻¹)	789.3a	714.3b	705b	705b	705b	705b	711.2b	705b	705b
Silt (g/kg ⁻¹)	68.7a	43.7b	59.3b	50ab	50ab	50ab	43.7b	46.8ab	62.5ab
Clay (g/kg ⁻¹)	141.8b	241.9a	235.6a	245a	245a	245a	245a	248.1a	232.5a
Chemical analysis									
pH (CaCl ₂)	5.75c*	5.96b	6.10b	6.13b	6.20b	6.26b	6.53a	6.23b	6.15b
Total nitrogen (%)	0.51a	0.098b	0.052b	0.062b	0.037b	0.061b	0.041b	0.062b	0.064b
Sodium (cmol _c /dm ³)	0.212a	0.214a	0.079c	0.143b	0.087c	0.123bc	0.161b	0.161b	0.129b
Potassium (cmol _c /dm ³)	0.622a	0.45bc	0.067e	0.491b	0.492b	0.269d	0.571ab	0.43c	0.211d
Calcium (cmol _c /dm ³)	5.15a	4.03a	1.74c	1.83bc	1.83bc	1.79c	1.76c	1.74c	2.11b
Magnesium (cmol _c /dm ³)	8.66a	6.20b	1.94c	2.07c	2.11c	2.03c	2.16c	2.02c	2.26c
Boron (mg/dm ³)	0.25b	0.22b	0.072c	0.21b	0.075c	0.24b	0.24b	0.23b	0.35a
Iron (mg/dm ³)	25.3ab	30.0a	24.0ab	21.5b	21.7b	24.2ab	24.3ab	23.5ab	22.6ab
Copper (mg/dm ³)	1.0a	0.6b	0.1c	0.95a	0.1c	0.77ab	1.01a	0.97a	0.67ab
Manganese (mg/dm ³)	2.82a	1.71c	0.75d	2.22b	0.90d	1.57c	1.96bc	2.22b	1.67c
Zinc (mg/dm ³)	1.21c	0.96cd	0.51d	3.51a	0.66cd	3.02ab	1.10c	2.77b	3.01ab
Organic matter (dag/kg ⁻¹)	7.29a	4.44b	1.56c	1.28c	1.36c	1.46c	1.39c	1.41c	1.81c
CEC (cmol _c /dm ³)	2.33a	2.0ab	1.46c	1.76bc	1.47c	1.53bc	1.45c	1.49bc	1.81bc
Base saturation (%)	86.1a	84.5a	72.2b	72.4b	75.4b	73.3b	76.3b	74.4b	72.5b

* Means followed by the same letter are not statistically different based on Tukey's test (P < 0.05).