

Table S1. Results of ANOVA analysis of photosynthesis-related parameters of *Saussurea esthonica* between sites, and vegetative (V) and generative (G) individuals. Statistically significant ($p < 0.05$) interactions are indicated in bold. d.f., degrees of freedom.

Site Interactions	Chlorophyll Content		F_v/F_m		Performance Index	
	F	p	F	p	F	p
2009 (d.f. 5)						
Apšuciems G vs. Apšuciems V	2.26	0.207	0.142	0.725	2.76	0.172
Apšuciems G vs. Pope G	13.20	0.022	9.54	0.037	18.90	0.012
Apšuciems G vs. Pope V	0.89	0.399	32.60	0.005	28.50	0.006
Apšuciems V vs. Pope G	5.10	0.087	10.50	0.032	26.60	0.007
Apšuciems V vs. Pope V	0.69	0.452	30.10	0.005	40.80	0.003
Pope G vs. Pope V	11.50	0.027	0.38	0.573	0.08	0.795
2010 (d.f. 7)						
Apšuciems G vs. Apšuciems V	0.00	0.969	0.87	0.386	0.10	0.764
Apšuciems G vs. Pope G	0.00	0.973	0.09	0.771	2.10	0.197
Apšuciems G vs. Pope V	0.73	0.425	0.01	0.930	0.82	0.399
Apšuciems V vs. Pope G	0.00	0.987	5.03	0.066	17.40	0.006
Apšuciems V vs. Pope V	0.72	0.427	3.29	0.120	6.04	0.049
Pope G vs. Pope V	7.34	0.117	0.41	0.548	1.65	0.247
2011 (d.f. 7)						
Apšuciems G vs. Apšuciems V	0.01	0.950	1.910	0.217	2.80	0.145
Apšuciems G vs. Pope G	4.01	0.092	3.570	0.108	6.04	0.048
Apšuciems G vs. Pope V	0.04	0.852	2.360	0.175	4.92	0.068
Apšuciems V vs. Pope G	1.24	0.308	14.30	0.009	27.2	0.002
Apšuciems V vs. Pope V	0.01	0.938	14.20	0.009	23.1	0.003
Pope G vs. Pope V	2.02	0.205	0.28	0.613	0.07	0.797

Table S2. Results of ANOVA analysis of number of leaves and plant vitality index of *Saussurea esthonica* plants cultivated in substrate with different mineral nutrient composition. Degrees of freedom = 11.

Soil Interactions	Number of Leaves		Vitality Index	
	<i>F</i>	<i>p</i>	<i>F</i>	<i>p</i>
Control vs. "Apšuciems "	23.13	0.001	2.93	0.125
Control vs. "Pope"	3.10	0.116	4.72	0.062
Control vs. "Pope+"	5.46	0.048	11.70	0.009
"Apšuciems " vs. "Pope"	14.86	0.005	8.60	0.019
"Apšuciems " vs. "Pope+"	23.12	0.001	16.65	0.004
"Pope" vs. "Pope+"	0.24	0.636	0.17	0.688

Table S3. Results of ANOVA analysis of photosynthesis-related parameters of *Saussurea esthonica* plants cultivated in substrate with different mineral nutrient composition. Degrees of freedom = 25.

Soil Interactions	Chlorophyll Content		Performance Index		F _v /F _m		RC/ABS		F _v /F ₀	
	<i>F</i>	<i>p</i>	<i>F</i>	<i>p</i>	<i>F</i>	<i>p</i>	<i>F</i>	<i>p</i>	<i>F</i>	<i>p</i>
Control vs. "Apšuciems "	69.40	<0.001	0.41	0.532	5.76	0.026	0.03	0.864	4.21	0.054
Control vs. "Pope"	5.40	0.032	0.84	0.371	4.21	0.054	0.01	0.134	4.62	0.094
Control vs. "Pope+"	21.50	<0.001	8.64	0.008	7.93	0.011	6.71	0.018	11.20	0.003
"Apšuciems " vs. "Pope"	7.10	0.015	2.04	0.169	14.80	0.001	0.00	0.975	14.60	0.001
"Apšuciems " vs. "Pope+"	0.77	0.389	11.70	0.003	18.90	<0.001	6.85	0.017	23.40	<0.001
"Pope" vs. "Pope+"	2.37	0.139	3.84	0.074	1.13	0.300	4.18	0.054	0.99	0.331

Table S4. Results of ANOVA analysis of number of leaves and plant vitality index of *Saussurea esthonica* plants cultivated in substrate with different water availability. Degrees of freedom = 11.

Moisture Interactions	Number of Leaves		Vitality Index	
	<i>F</i>	<i>p</i>	<i>F</i>	<i>p</i>
80% vs. 100%	6.38	0.030	2.09	0.179
80% vs. 150%	16.70	0.027	21.40	0.001
80% vs. 200%	12.10	0.006	17.80	0.002
100% vs. 150%	10.70	0.009	16.00	0.003
100% vs. 200%	5.59	0.040	11.90	0.001
150% vs. 200%	2.84	0.123	5.19	0.046

Table S5. Results of ANOVA analysis of photosynthesis-related parameters of *Saussurea esthonica* plants cultivated in substrate with different water availability. Degrees of freedom = 25.

Moisture Interactions	Chlorophyll Content		Performance Index		F _v /F _m		RC/ABS		F _v /F ₀	
	<i>F</i>	<i>p</i>	<i>F</i>	<i>p</i>	<i>F</i>	<i>p</i>	<i>F</i>	<i>p</i>	<i>F</i>	<i>p</i>
80% vs. 100%	23.30	<0.001	19.40	0.001	42.30	<0.001	27.20	<0.001	33.30	<0.001
80% vs. 150%	34.10	<0.001	16.10	0.001	0.85	0.365	31.90	<0.001	0.77	0.390
80% vs. 200%	3.90	0.059	0.96	0.340	22.40	<0.001	2.10	0.160	17.90	<0.001
100% vs. 150%	0.20	0.660	23.40	<0.001	29.30	<0.001	0.06	0.818	46.60	<0.001
100% vs. 200%	11.70	0.002	23.40	<0.001	0.59	0.451	19.80	<0.001	0.50	0.485
150% vs. 200%	19.00	0.002	25.30	<0.001	14.80	0.001	23.90	<0.001	25.30	<0.001