

Table S1. The results of nested ANOVA for the effects of increasing sucrose and sorbitol concentrations on the growth parameters (growth index, fresh and dry weight and % of dry matter) of shoot cultures of *G. lutescens* line 5. The bold values indicate statistically significant differences ($p \leq 0.05$).

ANOVA source of variation	Df	Mean Square	F- Ratio	p-Value
Sucrose				
Fresh weight	4	1285421	54.517	0.000000
Dry weight	4	2999	2.660	0.044738
Growth index	4	8.2287	54.831	0.000000
Dry matter %	4	0.05191	146.71	0.000000
Flowering	4	4.12000	4.54412	0.003617
Sorbitol				
Fresh weight	4	729024	18.993	0.000000
Dry weight	4	1723	1.030	0.405723
Growth index	4	4.8599	18.8620	0.000000
Dry matter %	4	0.027910	94.12	0.000000