

**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 ( $p \leq 0.05$ ).

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