

Table S3. The results of nested ANOVA for the effects of increasing sucrose and sorbitol concentrations on the xanthones production in 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				
mangiferin	4	10.5482	63.508	0.000000
DMB-8- <i>O</i> -glc	4	678.94	48.610	0.000000
bellidifolin-8- <i>O</i> -glc	4	102.753	28.460	0.000000
DMB	4	1.01244	9.2811	0.000039
bellidifolin	4	0.420090	5.5737	0.001531
Sorbitol				
mangiferin	4	0.14790	2.659	0.049420
DMB-8- <i>O</i> -glc	4	115.669	9.9284	0.000020
bellidifolin-8- <i>O</i> -glc	4	40.408	6.6653	0.000450
DMB	4	0.076329	7.5390	0.000181
bellidifolin	4	0.035898	2.5989	0.053411