

**Table S2.** The content of individual identified free sugars in the tissues of gerbera multiplied *in vitro* under light of different qualities (µg/mg).

Light quality	Sugar alcohol derivatives		Monosaccharides		Oligosaccharides					
	Inositol	Glycerol	Glucose	Fructose	Maltose	Sucrose	Raffinose	Stachyose	1-kestose	1.1-tetrakestose
B <sup>1</sup>	1.53 ± 0.13 a <sup>2</sup>	1.70 ± 0.20 b	10.25 ± 1.21 a	8.78 ± 1.09 a	2.49 ± 0.28 b	1.18 ± 1.07 a	1.01 ± 0.21 ab	0.33 ± 0.08 a	1.42 ± 0.13 a	1.13 ± 0.20 b
RB	2.84 ± 0.38 b	1.11 ± 0.25 a	16.26 ± 3.82 ab	7.84 ± 0.49 a	1.98 ± 0.20 a	2.16 ± 1.47 a	0.79 ± 0.10 a	0.64 ± 0.13 a	1.60 ± 0.30 ab	1.23 ± 0.06 b
R	3.24 ± 0.36 bc	1.01 ± 0.22 a	16.31 ± 2.87 ab	8.83 ± 2.83 a	2.48 ± 0.06 b	4.12 ± 0.94 a	4.46 ± 0.06 b	1.02 ± 0.25 b	2.45 ± 0.15 c	0.94 ± 0.20 ab
Fl	3.58 ± 0.24 c	1.28 ± 0.19 a	22.27 ± 6.24 b	11.42 ± 5.40 a	2.26 ± 0.17 ab	4.46 ± 3.22 a	0.71 ± 0.30 a	0.66 ± 0.16 a	2.07 ± 0.47 bc	0.67 ± 0.17 a

<sup>1</sup> B—100% blue LED (430 nm); RB—a mixture of red (70%) and blue (30%) LED; R—100% red LED (670 nm); Fl—control, fluorescence Philips TK-D 36W/54 lamps. <sup>2</sup> Means ± standard deviations within a column followed by the same letter are not significantly different according to Duncan's multiple range test at  $p \leq 0.05$ .