

**Table S3.** Inclusion of low concentrations of sucrose in the medium inhibits the accumulation of starch in short days but not in long days. Levels of starch at the beginning and end of the day in *Arabidopsis Col0* plants grown in nutrient agar added with various concentrations of sucrose on horizontal plates. The results are the mean  $\pm$  SD ( $n = 5$  separate samples, each of 4 individual plants).

Sucrose (%)	Starch ( $\mu\text{mol C}_6 \text{ g}^{-1} \text{ FW}$ ) $\pm$ SD			
	18h day/6h night		6h day/18h night	
	End of the day	End of the night	End of the day	End of the night
0	8.7 $\pm$ 3.3	2.6 $\pm$ 1.5	14.2 $\pm$ 0.9	0.4 $\pm$ 0.1
0.1	7.6 $\pm$ 2.3	1.1 $\pm$ 1.0	10.9 $\pm$ 0.9	0.3 $\pm$ 0.1
0.5	7.8 $\pm$ 1.0	0.6 $\pm$ 0.2	10.2 $\pm$ 1.6	0.2 $\pm$ 0.1
1	5.9 $\pm$ 1.2	0.7 $\pm$ 0.3	8.8 $\pm$ 0.9	0.2 $\pm$ 0.1
2	7.0 $\pm$ 0.9	1.1 $\pm$ 0.5	8.7 $\pm$ 1.4	0.5 $\pm$ 0.2