

Table 1. Growth rate (biomass accumulation), Glc consumption rate, and biomass composition of *Arabidopsis* cell suspension cultures grown under control conditions (21°C, no mannitol), at high temperature (29°C), and under hyperosmotic stress (171 mM mannitol)

All values are means \pm SD from four replicates. Values indicated in boldface are significantly different (Student's *t* test, $P < 0.05$) from the corresponding value for control cells.

Parameter	Control	29°C	Hyperosmotic
Biomass (g dry wt d ⁻¹ L ⁻¹ culture)	2.3 \pm 0.1	0.8 \pm 0.1	0.9 \pm 0.2
Glc consumption (g d ⁻¹ L ⁻¹ culture)	4.1 \pm 0.2	3.3 \pm 0.1	1.6 \pm 0.5
Biomass composition (%)			
Cell wall	43 \pm 5	35 \pm 2	55 \pm 2
Protein	20 \pm 2	16 \pm 3	28 \pm 4
Lipid	11 \pm 2	10 \pm 1	11 \pm 2
Starch	5 \pm 0.4	3 \pm 0.4	5 \pm 0.7
Soluble metabolites	14 \pm 1	21 \pm 1	7 \pm 1