

Table 1. *C. reinhardtii* (wild type) and *C. mundana* under different growth conditions

The cells were harvested at the onset of stationary phase in (iii), and in the later stages of log phase (or later) for (i) and (ii). For cytochrome *c* oxidase the units are, $\mu\text{mol cytochrome } c \text{ oxidised} \times \text{mg chlorophyll}^{-1} \times \text{h}^{-1}$, with 2 μM reduced horse heart cytochrome *c*, and cell fragments disrupted by freezing and sonication. The buffer was 10 mM phosphate, pH 7, plus 80 mM NaCl, and 540 and 550 nm were the two wavelengths on the spectrophotometer. n.d., not detected

Conditions	Chlorophyll	Plastocyanin	Cytochrome <i>c</i> -552	Cytochrome <i>c</i> -550	Cytochrome <i>c</i> oxidase
	mg/l	mol/100000 mol chlorophyll			$\mu\text{mol} \times \text{mg}^{-1} \times \text{h}^{-1}$
<i>C. reinhardtii</i> , wild type					
(i) Aerated, plus Cu	21 \pm 3	650 \pm 100	1.4 \pm 0.8	33 \pm 5	2.0
(ii) Aerated, no added Cu	20 \pm 3	\lesssim 10	165 \pm 20	35 \pm 8	2.0
(iii) Slow basal stirring, plus Cu	17 \pm 3	350 \pm 100	140 \pm 40	40 \pm 8	
As (iii), but with 80 μM Cu · EDTA	13	480	230	54	
<i>C. mundana</i>					
All conditions	12 \pm 2	n.d.	600 \pm 100	4 \pm 2	0.17