

Table S1. Characteristic parameters of ETR curves of *Edaphochlorella mirabilis* and *Diplosphaera epiphytica*.

Species / treatment	ETR _{max}	I _k	α	β
<i>D. epiphytica</i> untreated	35.7 ± 5.5 ^B	125.2 ± 19.7 ^A	0.297 ± 0.008 ^A	-0.002 ± 0.002 ^A
<i>D. epiphytica</i> D/RH	23.3 ± 0.4 ^A	81.2 ± 3.8 ^B	0.304 ± 0.007 ^A	-0.003 ± 0.001 ^A
<i>E. mirabilis</i> untreated	25.7 ± 3.2 ^A	143.3 ± 11.0 ^A	0.179 ± 0.013 ^B	-
<i>E. mirabilis</i> D/RH	20.9 ± 2.4 ^A	135.1 ± 12.3 ^A	0.196 ± 0.030 ^B	-0.010 ± 0.001 ^B

D/RH denotes values after the desiccation-rehydration treatment. Data were calculated by using the fitting model according to Webb et al. 1974 or Walsby 1997 depending on either photoinhibition occurred or not ($n = 4$, mean value ± SD). ETR_{max}, maximum electron transport rate ($\mu\text{mol electrons m}^{-2} \text{s}^{-1}$), α initial slope at limiting photofluence rates (electrons photon⁻¹), I_k initial value of light-saturated photosynthesis ($\mu\text{mol photons m}^{-2} \text{s}^{-1}$). Different capital letters indicate significant differences and were calculated by two-way ANOVA followed by Tukey's post hoc test ($P < 0.05$).