

TABLE 3. Long-term oxygen production of *Chlorella pyrenoidosa* as a function of carbon dioxide in the nutrient medium

Dissolved CO ₂ (%)	O ₂ production (ml/min)	Exp duration (days)
0.3	1.9	4
1.3	2.6	5
2.9	2.1	6
5.2	1.7	2

TABLE 1. Concentration of carbon dioxide at various locations within a photosynthetic gas exchanger under steady-state conditions as a function of entrance gas concentration and flow rate

Location	CO ₂ concn (% by vol)										
	55 ^a		135		290				320		
Entrance gas.....	2.07	2.90	1.02	2.11	2.94	0.53	2.10	0.54	1.03	2.10	2.93
Lower pCO ₂ electrode (Q)....	0.30	0.89	0.24	1.08	2.05	0.19	1.81	—	—	—	—
Upper pCO ₂ electrode (R)....	0.19	0.81	0.09	0.99	1.69	0.13	1.70	0.14	0.59	1.66	2.51
Exit gas.....	0.26	0.84	0.12	1.08	1.89	0.11	1.63	0.18	0.65	1.66	2.52

^a Represents flow rate in milliliters per minute.