Supplementary Materials of

Bicarbonate-Based Cultivation of *Chlorella vulgaris*: Growth Enhancement, Carbon Losses and Metabolic Trade-Offs

Carolina Maia [1], Mariana Cardoso [1], Joana Oliveira [1], Susana Casal [2], Tânia G. Tavares [1], José C. M. Pires [1] and Ana F. Esteves [1,*]

[1] LEPABE, ALiCE, Faculty of Engineering, University of Porto, Rua Dr. Roberto Frias s/n, 4200-465 Porto, Portugal; up201704692@edu.fe.up.pt (C.M.); up202305558@edu.fe.up.pt (M.C.); up201904660@edu.fe.up.pt (J.O.); tsgtavares@fe.up.pt (T.G.T.); jcpires@fe.up.pt (J.C.M.P.)

[2] LAQV-REQUIMTE, Faculty of Pharmacy, University of Porto, Rua de Jorge de Viterbo Ferreira 228, 4050-313 Porto, Portugal; sucasal@ff.up.pt (S.C.)

* Correspondence: afcesteves@fe.up.pt

Table S1. Average biomass concentration (X, mg L^{-1}) and corresponding $ln(X/X_0)$ values for *Chlorella vulgaris* cultivated under different sodium bicarbonate concentrations (B0 to B3.0) over 11 days.

***t* (d)**	***X* (mg L^{-1})**				***ln(X/X₀)***			
	B0	**B0.5**	**B1.5**	**B3.0**	**B0**	**B0.5**	**B1.5**	**B3.0**
0	135±2	139±4	139±4	139±1	0	0	0	0
1	157±4	172±3	180±2	180±2	0.15±0.03	0.21±0.04	0.26±0.01	0.26±0.01
2	212±16	254±12	295±17	325±3	0.45±0.09	0.60±0.08	0.60±0.01	0.85±0.01
3	282±12	341±21	410±12	462±8	0.74±0.08	0.89±0.09	1.08±0.02	1.20±0.01
4	371±30	455±28	521±17	615±12	1.01±0.04	1.18±0.08	1.32±0.01	1.49±0.02
7	598±42	648±41	736±26	807±20	1.49±0.09	1.54±0.09	1.66±0.02	1.76±0.03
8	657±44	711±50	757±30	840±23	1.58±0.09	1.6±0.1	1.70±0.02	1.80±0.03
9	719±50	772±49	811±37	885±29	1.67±0.09	1.71±0.09	1.76±0.03	1.85±0.04
10	754±46	799±67	842±33	903±29	1.72±0.08	1.7±0.1	1.80±0.02	1.872±0.007
11	847±36	859±75	892±44	1003±15	1.84±0.06	1.8±0.1	1.86±0.04	1.98±0.02

Data represent mean ± SD ($n \geq 3$).

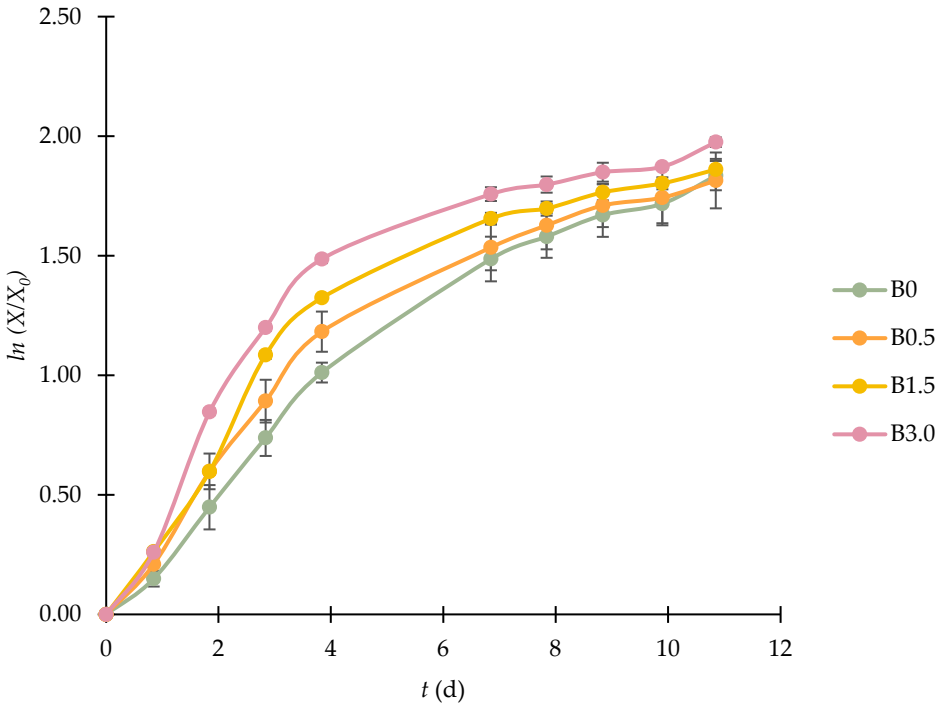


Figure S1. Semi-logarithmic growth curves of *Chlorella vulgaris* ($ln(X/X_0)$ vs time) cultivated under different bicarbonate concentrations (0 g L^{-1} (B0), 0.5 g L^{-1} (B0.5), 1.5 g L^{-1} (B1.5), and 3.0 g L^{-1} (B3.0)) over 11 days. Data represent mean ± standard deviation ($n \geq 3$).