

Supplemental Table.

Table S2: Relative content (%) of the Individual amino acids [AA] measured in the diatom *Cylindrotheca fusiformis*. A total of 12 AA were identified and quantified. The analysis of the specific AA groups showed that the Essential (EA) represented ~40% and Non-essential (NEA) the remaining ~60%.

	Temp. °C	14	14	14	14	14	14	14	14	14	19	19	19	19	19	19	19	19	
	CO ₂ (µatm)	180	180	180	380	380	380	750	750	750	180	180	380	380	380	750	750	750	
Type																			
E	Val	7.57	8.00	5.13	7.80	8.02	7.72	7.08	7.69	5.58	6.70	6.07	7.06	7.49	6.70	6.66	7.67	6.85	
E	Ile	5.28	5.27	3.28	6.83	5.33	6.02	5.14	5.32	3.81	5.12	4.97	5.38	4.91	4.98	4.81	6.09	5.65	
E	Leu	10.75	12.06	10.67	12.75	12.26	12.39	10.57	11.27	11.88	11.00	11.89	11.60	12.25	10.85	12.29	11.80	12.46	
E	Lys	2.90	2.70	4.98	6.21	4.16	3.87	5.64	2.62	4.77	6.38	8.09	6.80	4.37	5.86	7.55	4.94	7.46	
E	Met	1.90	1.23	2.56	2.02	1.95	1.38	1.43	1.01	1.61	2.06	2.54	2.16	2.51	2.44	2.31	2.86	2.21	
E	Phe	5.27	6.55	5.34	7.66	5.76	6.56	5.71	5.39	6.87	5.37	6.71	6.32	6.06	5.86	6.42	5.94	6.77	
NE	Pro	7.10	6.61	6.04	6.70	6.62	6.61	6.70	6.35	6.38	5.82	5.32	5.83	5.64	5.18	6.42	6.05	5.20	
NE	Tyr	1.59	2.24	2.30	2.83	1.52	2.67	2.14	1.71	2.87	2.53	3.05	2.28	2.00	2.68	2.99	2.71	3.25	
NE	Ala	16.03	14.16	14.14	12.81	14.83	13.52	12.82	14.75	15.43	12.87	11.50	14.35	13.45	12.19	13.31	13.71	11.04	
NE	Asx	13.75	13.57	14.34	12.70	14.09	12.75	15.12	13.18	14.97	13.02	12.61	11.67	13.45	13.62	12.79	12.89	12.08	
NE	Glx	12.33	12.41	18.01	9.99	11.17	13.26	16.03	16.36	10.59	16.65	16.45	12.48	14.51	18.84	10.02	11.36	15.98	
NE	Gly	15.54	15.21	13.21	11.71	14.27	13.25	11.62	14.35	15.24	12.48	10.81	14.08	13.35	10.82	14.43	14.00	11.04	