

Supplementary Material

Table S1. Concentrations of compounds and ions in Bold's Basal Medium (BBM), modified from Nichols and Bold [106]

Compounds composition			Ions composition	
Compound	Molar mass	Concentration, ppm	Ions	Concentration, ppm
KH ₂ PO ₄	136.09	175	PO ₄	163.1
CaCl ₂ × 2H ₂ O/ Ca(NO ₃) ₂ × 4H ₂ O*	147.02/236.15*	25/45*	NO ₃	189.0
MgSO ₄ × 7H ₂ O	246.48	75	NH ₄	1.7
NaNO ₃	84.99	250	SO ₄	31.97
K ₂ HPO ₄	174.20	75	Cl	31.1
NaCl	58.40	25	P	53.2
Na ₂ EDTA × 2H ₂ O	372.24	10	N	7.4
FeSO ₄ × 7H ₂ O	278.02	5	Ca	11.8
H ₃ BO ₃	61.80	8	Mg	8.5
NH ₄ Cl	53.50	5	K	93.9
Trace Metals			Na	78.0
H ₃ BO ₃	61.80	2.86	Fe	1.1
MnCl ₂ × 4H ₂ O	197.90	1.81	Cu	0.02
ZnSO ₄ × 7H ₂ O	246.47	0.22	Zn	0.23
Na ₂ MoO ₄ × 2H ₂ O	241.90	0.39		
CuSO ₄ × 5H ₂ O	249.60	0.08		
Co(NO ₃) ₂ × 6H ₂ O	291.00	0.049		

* compound used in the experiment

Table S2. Correlation of the parameters reflecting growth and biochemical composition of the *Chlorella zofingiensis* cells exposed to the range of ABA concentrations in BBM medium for 16 days (see also Table 2).

	ABA, μM	Cell density, $n \times 10^7$	Biomass, g/L	TFA, $\mu\text{g}/\text{cell}$	Ch <i>b</i> , ng/cell	CR, ng/cell	TFA/Ch <i>a</i> + <i>b</i>	TFA/CR
ABA, μM	1.00							
Cell density, $n \times 10^7$	0.95	1.00						
Biomass, g/L	0.97	0.99	1.00					
TFA, $\mu\text{g}/\text{cell}$	0.60	0.51	0.58	1.00				
Ch <i>a</i> + <i>b</i> , ng/cell	-0.81	-0.61	-0.66	-0.38	1.00			
CR, ng/cell	-0.50	-0.57	-0.49	0.35	0.48	1.00		
TFA/Ch <i>a</i> + <i>b</i>	0.98	0.89	0.93	0.67	-0.86	-0.41	1.00	
TFA/CR	0.96	0.90	0.93	0.77	-0.75	-0.33	0.98	1.00

Chlorophyll-a and -b (Ch*a* + *b*), total carotenoid (CR), and total fatty acid (TFA)

Reference:

1. Nichols, H.W.; Bold, H.C. *Trichosarcina polymorpha* gen. et Sp. nov. *J. Phycol.* **1965**, *1*, 34–38.