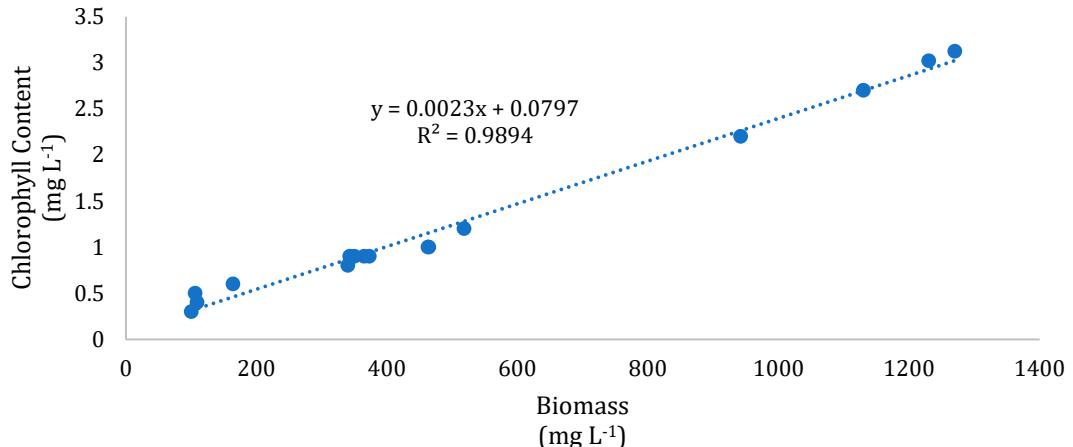


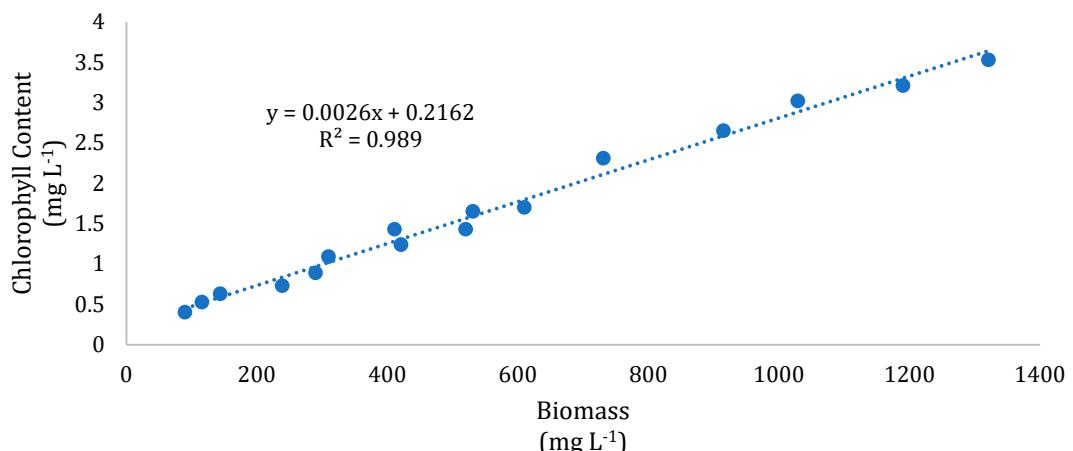
Supplementary materials

P21



(a)

WB1DG



(b)

Figure S1. Standard curve for microalgae biomass determination based on chlorophyll A content . **(a)** P21 and **(b)** WB1DG.

Table S1. Isolated strains of microalgae from the area around a CBEW pond and its growth on several carbon sources.

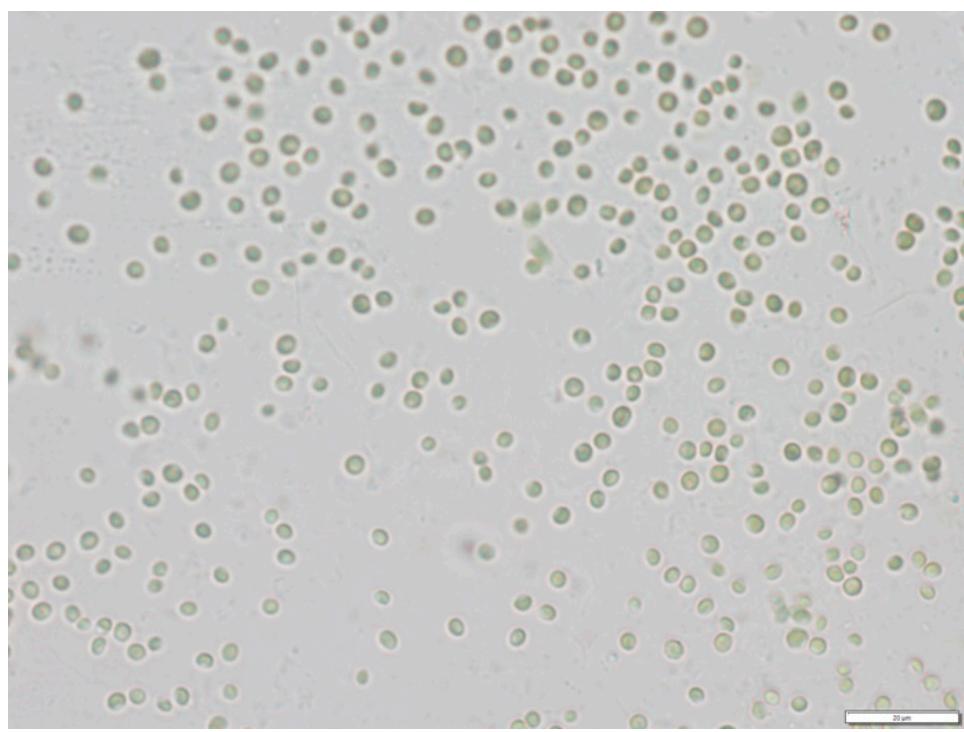
Strain name	Carbon source				
	Glu	Suc	Fruc	Man	Galac
1 WB 1 DG	+++	+++	+++	+	++
2 P 21	+++	++	++	+	+++
3 BP 3	+++	+++	++	-	+++
4 RS 1	+++	+++	+++	-	++
5 RS 2	+++	+++	++	-	+
6 RS 3	+++	+++	++	-	+
7 RS 4	+++	+++	++	-	+
8 RS 5	+++	+++	++	-	+
9 RS 6	+++	+++	++	-	-
10 P 21 TCB	+	++	+	-	+
11 BET 1 F	-	-	-	-	-
12 LD 1	-	-	-	-	-
13 NL 1	-	-	-	-	-
14 NL 2	-	-	-	-	-
15 PDG 1	-	-	-	-	-
16 P11	-	-	-	-	-
17 PRO 1	-	-	-	-	-
18 RCA 2	-	-	-	-	-
19 RCB 1	-	-	-	-	-
20 RCO 3	-	-	-	-	-
21 SW 1	-	-	-	-	-
22 UN 1	-	-	-	-	-
23 CEB 1	-	-	-	-	-
24 SP22	-	-	-	-	-

- = no growth (Initial A₆₈₀ - A₆₈₀ Final <= 0)

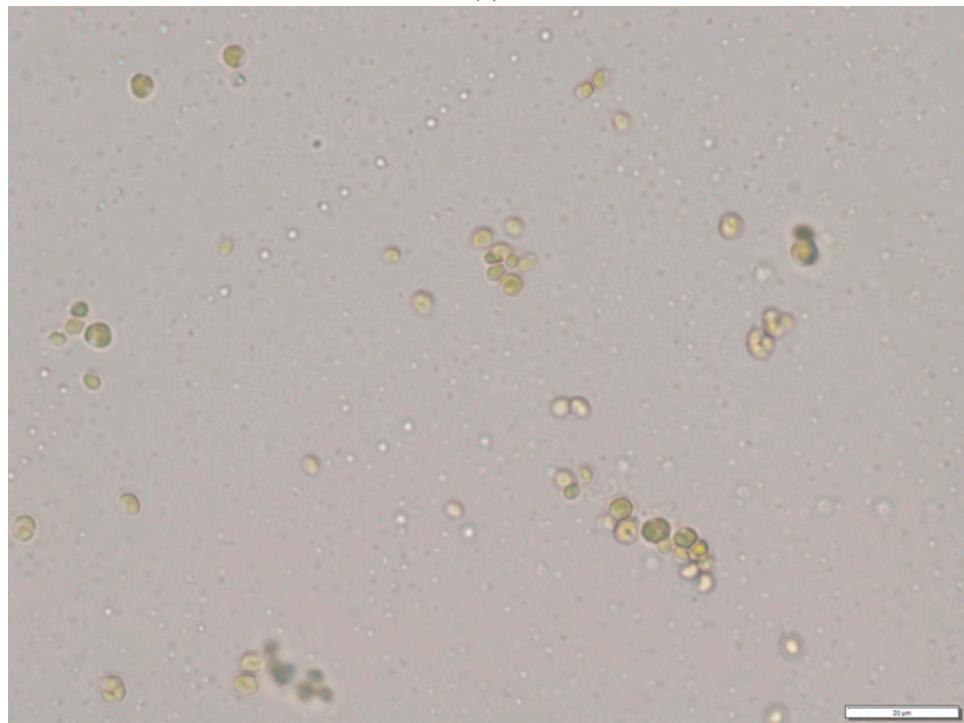
+ = Low growth (Initial A₆₈₀ - A₆₈₀ Final = 0 - 0.25)

++ = Normal growth (Initial A₆₈₀ - A₆₈₀ Final = 0.25-0.05)

+++ = Abundant growth (Initial A₆₈₀ - A₆₈₀ Final > 0.5)



(a)



(b)

Figure S2. Morphology of microalgae in the reactor after 20-days of cultivation. (a) P21, and (b) WB1DG.

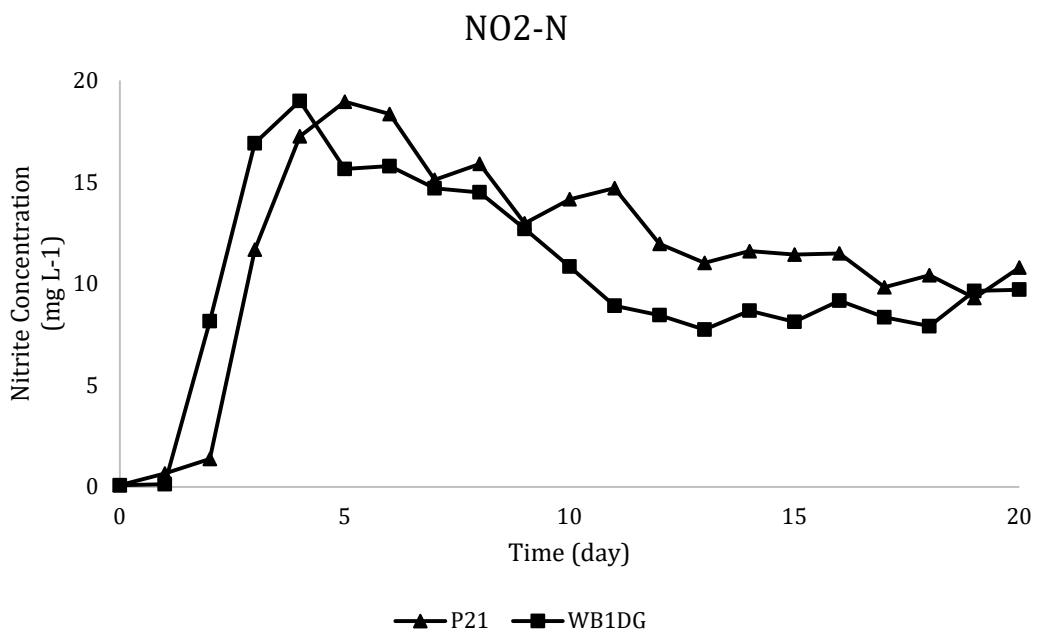


Figure S3. Nitrite levels during cultivation of *Chlorella sorokiniana* P21 and WB1DG.

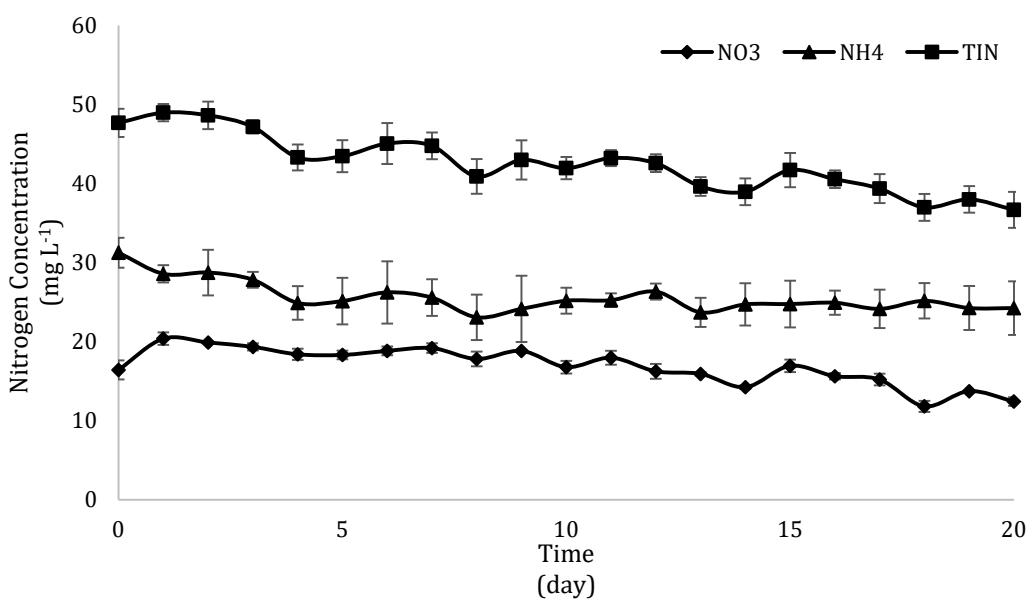


Figure S4. Nitrogen profile in the control reactor.

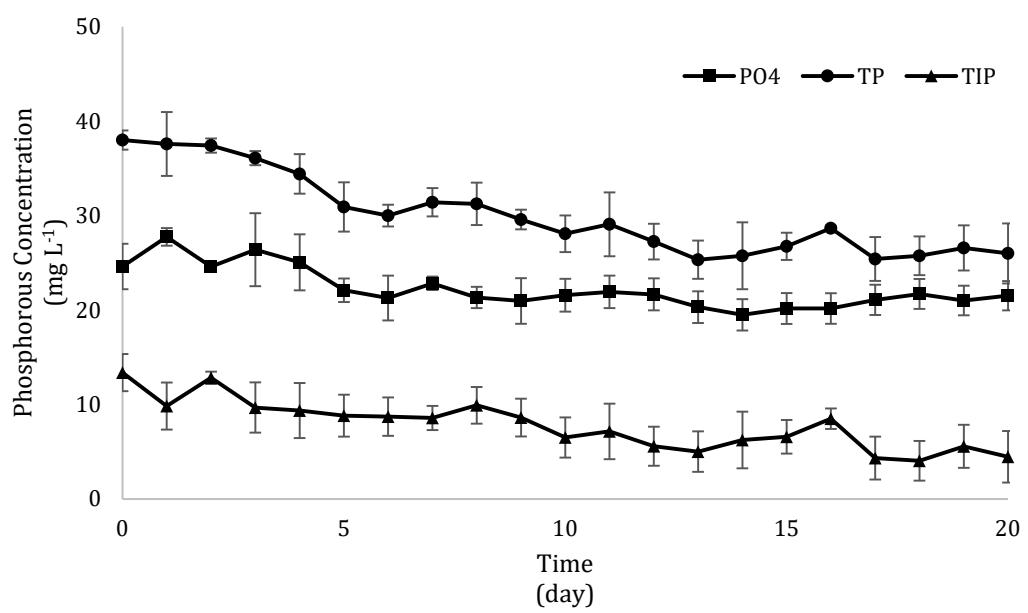
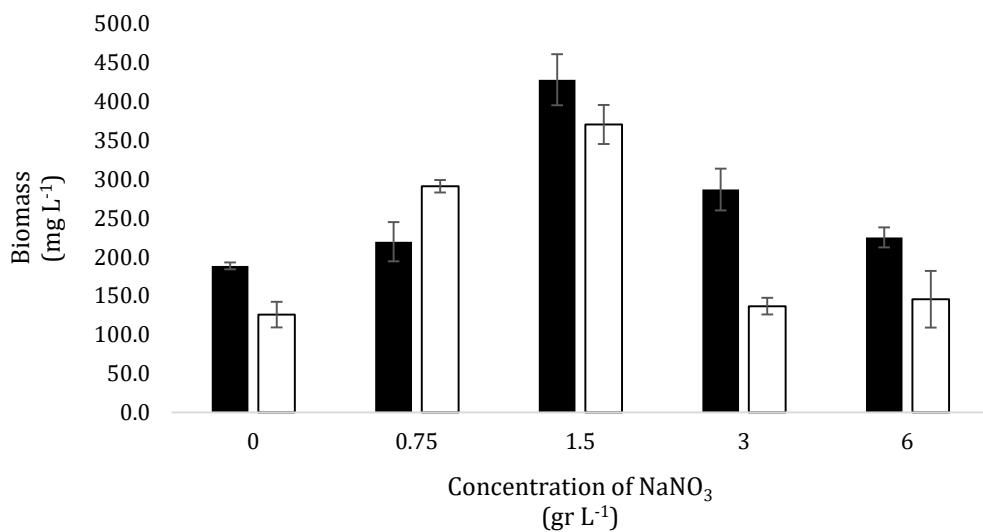
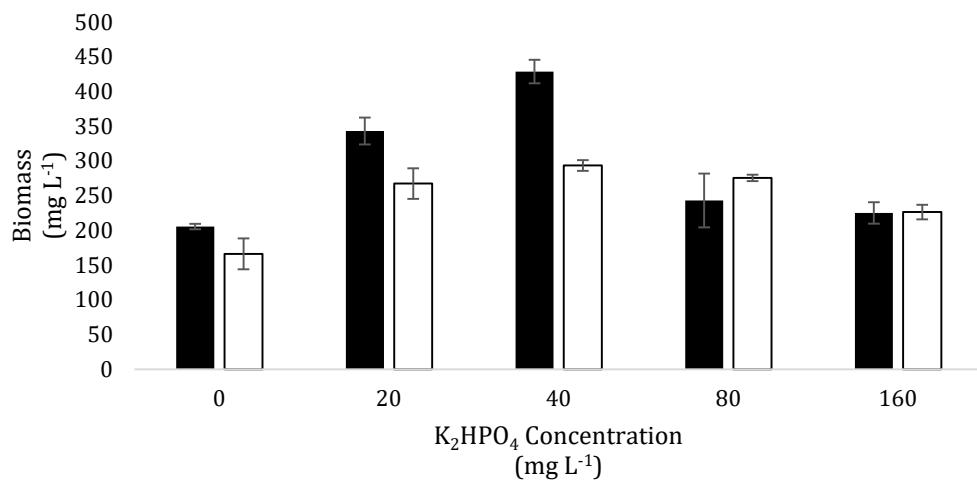


Figure S5. Phosphorous profile in the control reactor



(a)



(b)

Figure S6. Density of two strains of Microalga *C. sorokiniana* P21 (Black) and WB1DG (white) in BG 11 medium with different concentration of nutrients after 7-day cultivation. **(a)** Nitrogen and **(b)** Phosphorus