

Supplementary Information

Figure S1. Standard curves constructed with PCR products of *sxtA* (A) and *sxtG* genes (B). The curves were the mean of the three different experiments.

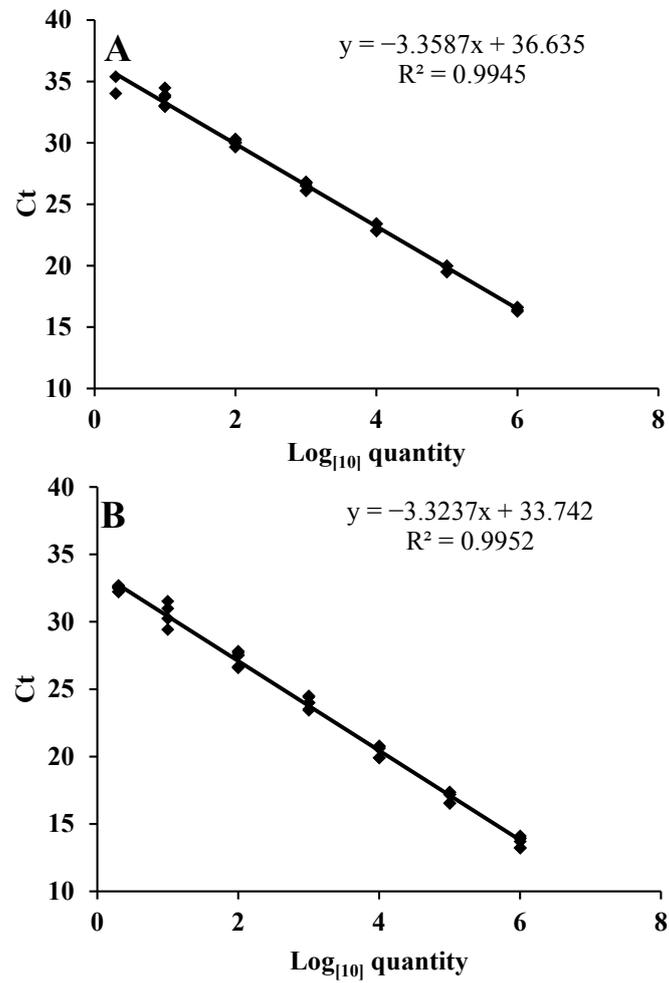


Figure S2. Cell densities (cells ml⁻¹) of the representative *Alexandrium minutum* CBA57 strain under phosphorous and nitrogen limiting conditions (means \pm SD, $n = 3$).

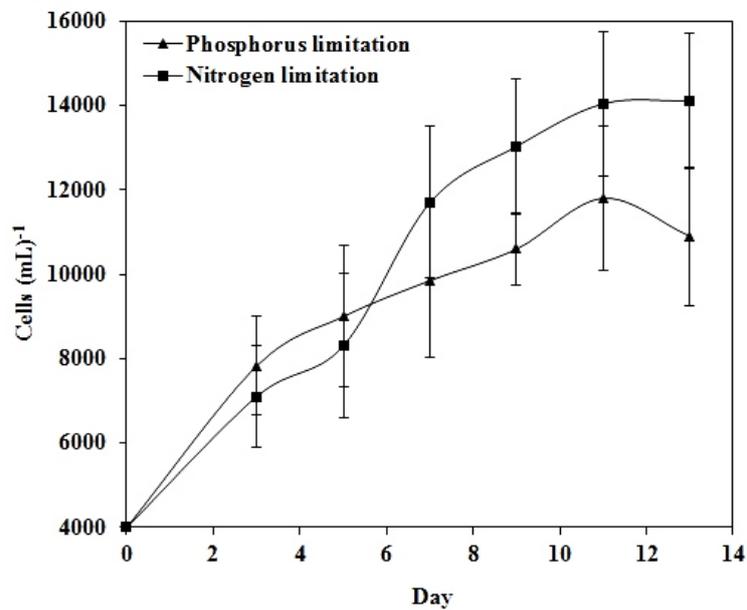


Figure S3. Growth curves of the *Alexandrium minutum* strains in standard nutritional conditions. The curves were the mean of the three biological replicates (means \pm SD, $n = 3$).

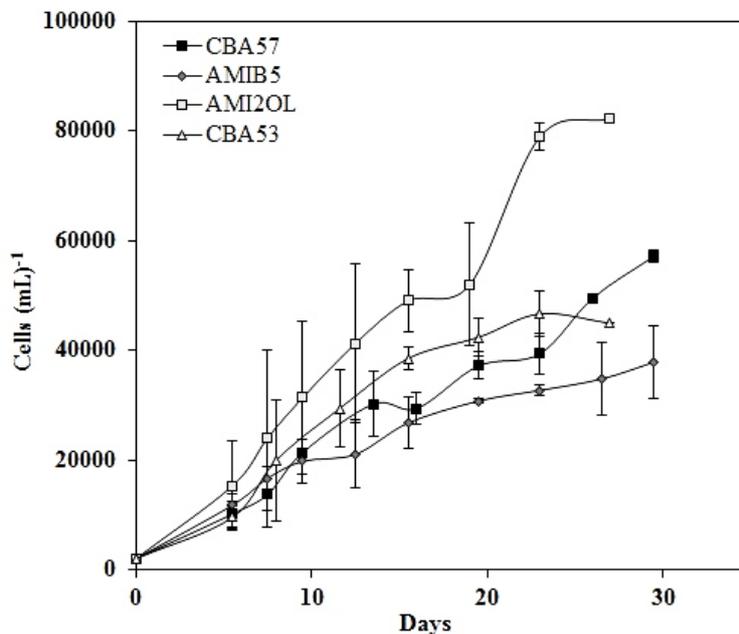


Table S1. Concentration of dissolved inorganic nitrogen (DIN) and dissolved inorganic phosphorus (DIP) in the different growth media conditions and growth phase. T_0 correspond to the time of inoculation (day 1).

Nutrients (μM)	Standard Condition			Phosphorous Limitation			Nitrogen Limitation		
	T_0	Exponential Phase	Stationary Phase	T_0	Exponential Phase	Stationary Phase	T_0	Exponential Phase	Stationary phase
DIN	951.6 \pm 28.3	678 \pm 58.2	142.6 \pm 40.4	916.9 \pm 24.2	899.2 \pm 89.1	764.2 \pm 67	77.5 \pm 6.5	21.5 \pm 2.1	0.73 \pm 0.1
DIP	36.3 \pm 1.0	14.8 \pm 3.9	0.45 \pm 0.1	0.16 \pm 0.1	0.16 \pm 0.05	0.13 \pm 0.04	36.7 \pm 0.6	21.1 \pm 2.1	9.63 \pm 0.9

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