

Supplementary material

Table S1- Different levels of the significant factors tested in the CCRD

Factors	Units	Experimental values- Coded level				
		-α	-1	0	+1	+α
N content	mmol.L ⁻¹	5	7.5	10	12.5	15
P content	mmol.L ⁻¹	0	0.15	0.1	0.15	0.2
Salinity	PSU	6	35	62	89	116
Aeration rate	mL.min ⁻¹	500	600	700	800	900

Table S2- Different levels of the significant factors tested in the CCD

Factors	Units	Experimental values- Coded level		
		-1	0	+1
N content	mmol.L ⁻¹	2	4	6
P content	mmol.L ⁻¹	0.2	0.3	0.4

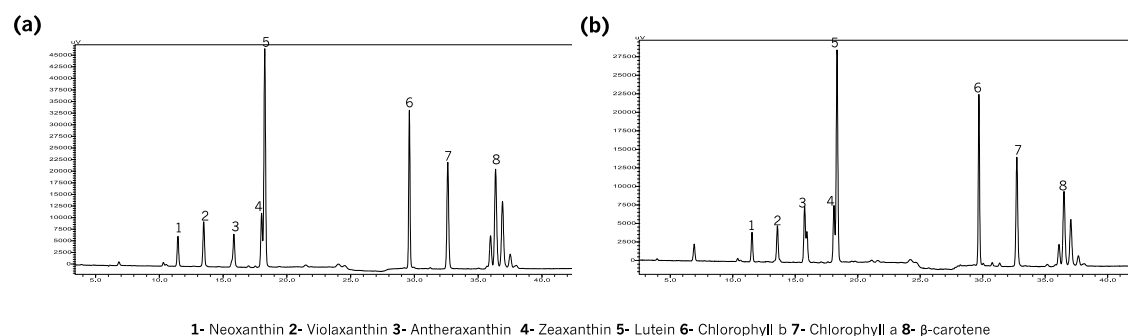


Figure S1: Profile of the major pigments detected in *D. salina* under the optimal (a) and standard (b) conditions (HPLC chromatogram).