

Table S1 Composition of different nutrient-deficient medium

Component	Final concentration in the growth medium			
	NR	-N	-P	-S
NaNO ₃	600 mg/L	-	600 mg/L	600 mg/L
NaH ₂ PO ₄	20 mg/L	20 mg/L	-	20 mg/L
Na ₂ SiO ₃	30 mg/L	30 mg/L	30 mg/L	30 mg/L
FeCl ₃ ·6H ₂ O	3.15 mg/L	3.15 mg/L	3.15 mg/L	3.15 mg/L
EDTA·2Na·	4.36 mg/L	4.36 mg/L	4.36 mg/L	4.36 mg/L
CuCl ₂	8.2 µg/L	8.2 µg/L	8.2 µg/L	8.2 µg/L
Na ₂ MoO ₄	6.3 µg/L	6.3 µg/L	6.3 µg/L	6.3 µg/L
ZnCl ₂	21 µg/L	21 µg/L	21 µg/L	21 µg/L
CoCl ₂ ·6H ₂ O	0.01 mg/L	0.01 mg/L	0.01 mg/L	0.01 mg/L
MnCl ₂ ·4H ₂ O	0.18 mg/L	0.18 mg/L	0.18 mg/L	0.18 mg/L
B ₁₂	0.001 mg/L	0.001 mg/L	0.001 mg/L	0.001 mg/L
B ₁	0.2 mg/L	0.2 mg/L	0.2 mg/L	0.2 mg/L
biotin	0.001 mg/L	0.001 mg/L	0.001 mg/L	0.001 mg/L
NaCl	21.22 g/L	21.22 g/L	21.22 g/L	24.02 g/L
NaHCO ₃	0.174 g/L	0.174 g/L	0.174 g/L	0.174 g/L
MgCl ₂ ·6H ₂ O	9.034 g/L	9.034 g/L	9.034 g/L	9.034 g/L
CaCl ₂	1.033 g/L	1.033 g/L	1.033 g/L	1.033 g/L
Na ₂ SO ₄	3.407 g/L	3.407 g/L	3.407 g/L	-
KCl	0.357 g/L	0.357 g/L	0.357 g/L	0.357 g/L
KBr	0.0862 g/L	0.0862 g/L	0.0862 g/L	0.0862 g/L
H ₃ BO ₃	0.023 g/L	0.023 g/L	0.023 g/L	0.023 g/L

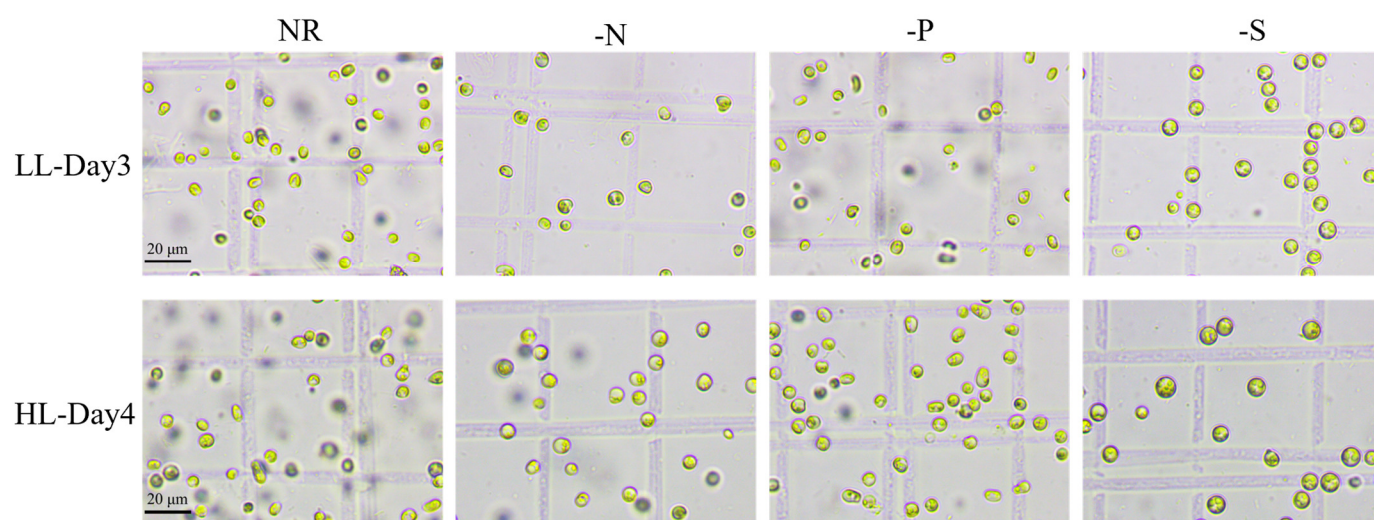


Figure S1. Cell morphology of *Isochrysis zhangjiangensis* cultivated with different nutrient deprivations (NR, nutrient repletion; -N, nitrogen deprivation; -P, phosphorus deprivation; -S, sulfur deprivation) under low light (LL) and high light (HL) intensities