

Table 1: Effects of different NaNO₃ concentrations on algal biomass, lipid content per cell and lipid productivity

	Concentrations of NaNO ₃ (g/L)				
	0.21	0.42	1.68	10.08	20.16
Biomass(mg/L)	320.2±1.23	277.6±2.08	253.4±1.94	245.8±2.36	225.0±2.45
Lipid content per cell (mg×10 ⁻⁵ /cell)	4.09±0.112	5.89±0.203	6.01±0.562	6.18±0.362	5.90±0.307
Lipid productivity (mg/ml/day)	0.6432±0.0093	0.7286±0.0101	0.7628±0.0121	0.7628±0.0113	0.6731±0.0156

Table 2: Effects of different NaHCO₃ concentrations on algal biomass, lipid content per cell and lipid productivity

	Concentrations of NaHCO ₃ (g/L)				
	0.21	1.68	5.04	6.72	13.44
Biomass (mg/L)	448.1±2.01	548.9±3.10	491.1±2.84	440.1±2.37	426.0±1.67
Lipid content per cell (mg×10 ⁻⁵ /cell)	5.31±0.231	4.74±0.316	5.41±0.195	6.39±0.206	5.98±0.253
Lipid productivity (mg/ml/day)	1.0449±0.0413	1.1303±0.0205	1.1603±0.0317	1.2350±0.0326	1.1218±0.0387

Table 3: Effects of different NaCl concentrations on algal biomass, lipid content per cell and lipid productivity

	Concentrations of NaCl (M)				
	0.5	1.5	2.5	3.5	4.5
Biomass (mg/L)	326.4±2.77	383.3 ±3.04	295.6 ±2.78	195.3±3.05	19.9±2.33
Lipid content per cell (mg×10 ⁻⁵ /cell)	6.37±0.174	5.84±0.117	5.69±0.165	6.28±0.183	8.98±0.162

Lipid productivity (mg/ml/day)	0.8951±0.0754	0.9568±0.0809	0.7276±0.0665	0.5432±0.0674	0.1821±0.0544
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Table 4: Effects of different $\text{NaH}_2\text{PO}_4 \cdot 2\text{H}_2\text{O}$ concentrations on algal biomass, lipid content per cell and lipid productivity

	Concentrations of $\text{NaH}_2\text{PO}_4 \cdot 2\text{H}_2\text{O}$ (g/L)				
	0.003	0.015	0.075	0.275	1.875
Biomass (mg/L)	206.0±4.09	311.1 ±3.87	319.5 ±2.18	287.5 ±2.21	175.6±2.05
Lipid content per cell (mg × 10 ⁻⁵ /cell)	8.4±0.15	7.1±0.21	6.3±0.14	7.1±0.23	6.0±0.18
Lipid productivity (mg/ml/day)	0.8141 ±0.0232	0.9893 ±0.0531	0.9038±0.0443	0.9274±0.0522	0.5107 ±0.0339

Table 5: Effects of different Fe-EDTA solution concentrations on algal biomass, lipid content per cell and lipid productivity

	Concentrations of Fe-EDTA solution (ml/L)				
	0	0.1	0.5	2.5	12.5
Biomass (mg/L)	377.4±2.44	405.7 ±2.63	358.7±1.86	339.6 ±3.11	118.5±3.22
Lipid content per cell (mg × 10 ⁻⁵ /cell)	5.8±0.05	5.6±0.06	5.7±0.04	7.4±0.12	1.7±0.09
Lipid productivity (mg/ml/day)	0.9600±0.0555	0.9860±0.0464	0.8837±0.0352	1.0821 ±0.0478	0.7448±0.0501

Table 6: Effects of different $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$ concentrations on algal biomass, lipid content per cell and lipid productivity

	Concentrations of $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$ (g/L)				
	0.5	1	2	4	8
Biomass (mg/L)	485.9±4.37	497.9±3.88	445.4 ±3.94	469.3±2.16	428.0 ±2.38

Lipid content					
per cell	4.8±0.08	4.8±0.02	5.5±0.07	5.3±0.03	4.8±0.05
(mg×10 ⁻⁵ /cell)					
Lipid					
productivity	0.9966	1.0180	1.0546	1.0897	0.8959
(mg/ml/day)					

Table 7: Effects of different CaCl₂•2H₂O concentrations on algal biomass, lipid content per cell and lipid productivity

	Concentrations of CaCl ₂ •2H ₂ O (g/L)				
	0	0.01	0.05	0.1	0.15
Biomass (mg/L)	492.4±3.17	587.3 ±3.65	436.7±2.88	636.0±3.06	412.5±2.53
Lipid content					
per cell	3.3±0.11	3.6±0.08	4.6±0.06	3.9±0.13	4.6±0.08
(mg×10 ⁻⁵ /cell)					
Lipid					
productivity	0.7082 ±0.0664	0.9005±0.0706	0.8639±0.0388	1.0470±0.0466	0.8257±0.0452
(mg/ml/day)					