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Synechocysti sp.

In this study, the effects of different types of carbohydrates, vitamins and amino acids, temperature, photoperiod (light/dark cycle), initial pH, NaCl, NaNO₃, sodium thiosulphate pentahydrate on biomass and lipid productivity of *Synechocystis* were investigated. Maximum lipid productivity was achieved under the following conditions: light/dark period (24-0) (Biomass productivity: 75 Mg/L day, lipid productivity: 24 Mg/L day), sodium thiosulphate 1mM (BP: 125, LP: 32.42), initial pH 7 (BP: 109, LP: 22.89), NaNO₃ (LP: 0.5 g/l), sucrose % 1 (BP: 194 LP: 71.93), glycine % 0.1 (BP: 130, LP: 40), biotin (BP: 155, LP: 26.85) and temperature 30°C (BP: 111, LP: 33.42).
