2 The growth curve of *C. reinhardtii* Plotting

2.1 Equipments

Automatic cell counter and counting board (LUNA, Korea), multiskan go microplate (Thermo, USA), 96 Well cell culture cluster (Costar)

2.2 Materials

TAP medium

2.3 Procedures

1) Collect the algal solution, centrifuge the *Chlamydonomas* solution at 2500 rpm for 5 min. Use TAP liquid medium for gradient dilution. Measure the absorbance at 750 nm of 200 μL algal solution.
2) Inoculate the algae strains into TAP liquid medium respectively, with the initial concentration of the cells being 1.0×10^5 cells/mL. Culture at 25℃, with 5.9 klx continuous illumination, and 150 rpm. Set three parallel samples for each group, and take the algae solution every 24 h, to measure the absorbance of the algae cells at 750 nm with microplate micrometer. Draw the growth curve according to the absorbance-cell density curve.