Fluorescence measurement

Material

Ampicillin antibiotics (Solarbio)
Chloramphenicol (Solarbio)
M9 SeMET High-Yield Growth Medium
Luria-Bertani liquid medium

Procedure

1.The cell populations were plated on LB agar with ampicillin antibiotics and chloramphenicol and individual colonies were subsequently grown overnight in 30ml Luria-Bertani liquid medium.

2.Cultures were back diluted 1:100 into M9 SeMET High-Yield Growth medium with ampicillin antibiotics and chloramphenicol.

3.After growing for about 6-7hours, add IPTG, cells are on the logarithmic phase and we
test the fluorescence of GFP every 2h.

4.The OD600 and GFP were measured using a Varioskan Flash Multimode Reader (Thermo Scientific) until cells are on the logarithmic phase.

5.Set our instrument parameters and set up a 96-well plate with our culture.Then take the measurement and record it. The run software version is Skanlt Software 2.4.5 RE for Varioskan Flash.

6.GFP were measured at excitation/emission wavelengths of 485nm/520nm, respectively. Each fluorescence value was normalized to the number of cells by dividing by the OD600.