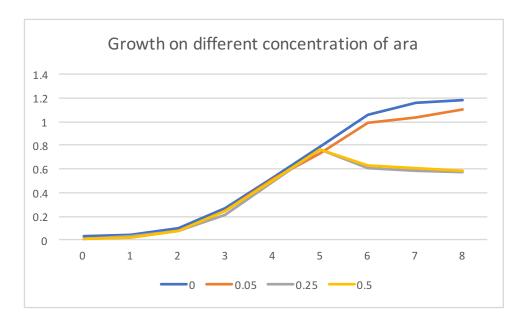
1. Purpose: Base on pGLO-Cas9, test resistance gene cut

2. Material:

E.coli K-12 MG1655 WT-Cas9-ptf, E.coli K-12 MG1655 cmR-Cas9-ptf ,, LB+Amp+Spec media, arabinose, chloramphenicol

3. Methods

- 1. Inoculate both WT-Cas9-ptf and CMR-Cas9-ptf on plate.
- 2. Pick single colonies from both plates and culture overnight in LB liquid.
- 3. Use different concentration of arabinose to induce the Cas9 protein expression, the concentrations used are 0, 1mM, 5mM, 10mM
- 4. Process the data to draw growth curve, which clearly shows our system is functional and the efficiency is related to ara concentration



Tristan Yuan 10.1