

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

