Molecular cloning and genetic engineering – DNA Kit Plate

Aim

This protocol is to extract Part plasmids from the 2019 iGEM Distribution Kit.

Materials

2019 iGEM Distribution Kit

ddH_2O

Procedure

1. With a pipette tip, punch a hole through the foil cover into the corresponding well of the part that you want. Make sure you have properly oriented the plate. Do not remove the foil cover, as it could lead to cross contamination between the wells.

2. Pipette 10µL of ddH_2O (distilled water) into the well. Pipette up and down a few times and let sit for 5 minutes to make sure the dried DNA is fully resuspended. The resuspension will be red, as the dried DNA has cresol red dye. We recommend that you do not use TE to resuspend the dried DNA.

3. Transform 1µL of the resuspended DNA into your desired competent cells, plate your transformation with the appropriate antibiotic* and grow

overnight.

4. Pick a single colony and inoculate broth (again, with the correct antibiotic) and grow for 16 hours.

5. Use the resulting culture to miniprep the DNA AND make your own glycerol stock (for further instruction on making a glycerol see this page). We recommend using the miniprepped DNA to run QC tests, such as restriction digests and sequencing.