**Transformation Protocol**

For plasmid in chemically competent cells.

* Thaw chemically competent cells and put agar places on room temperatures
* Mix 1-5 uL of DNA (30 uM) into 20-50 uL of chemically competent cells in microcentrifuge tube. Gently mix by flicking bottom of tube with finger.
* Incubate on ice for 20-30 mins
* Heat shock by putting into PCR for 70C for 10 mins.
* Leave in shaker for 1 hour
* Plate into a 10 cm LB agar plate and shake with beads
* Leave plate overnight, remove in the morning
* Pick 8 colonies and place into PCR tubes with 2.5 uL LB
* PCR setup
  + Transfer 2 uL LB
  + 25 uL 2x Q5 Hot Start Master Mix
  + 18 uL NFW
  + 2.5 uL forward primer
  + 2.5 uL reverse primer
* PCR protocol

Table

Description automatically generated

* Run gel with \_\_\_ (how much?)
* Gel extraction??