Date:
Names:

Transformation

____ 1. Obtain X (number of transformations) microfuge tubes and **label**.
____ 2. Place the SOC medium (from fridge) and place in 37° incubator.
____ 3. Place X plates in the incubator with the appropriate antibiotic resistance.
____ 4. Make ice water bath with styrofoam container.
____ 5. Add 50µl of competent cells
- Get cells from -80° freezer and allow to warm up in the ice bath

____ 6. Add 2µl of the DNA
____ 7. Place in ice-water bath for **2 minutes**.
- Use floats

____ 8. While waiting…
- Turn on sink's hot water
- Obtain a 400ml beaker
- Add to beaker
- Using a thermometer, adjust water to **42℃**

____ 9. Place tubes **directly** into warm water for **30 seconds**.
____ 10. Place tubes **directly** in ice-bath for another **2 minutes.**
____ 11. Add 1ml of warm SOC medium (from incubator)
- Place SOC back into refrigerator

____ 12. Place each tube into the 37° incubator for at least 1 hour
____ 13. Spin down in centrifuge for 1 min. Pour off most of supernatant into bleach.
____ 14. Label each plate
- Labels go on the ager(gel substance) side and around the edge

____ 15. Obtain materials to spread bacteria
- Ethanol
- Bar
- Striker and flame

____ 16. Resuspend bacteria. Pour the appropriate tube onto the plate
____ 17. Use the bar to spread bacteria evenly around the plate
- Dip in ethanol then let burn off the sterilize before and after each spread.

____ 19. Place plates in the 37° incubator overnight
____ 20. Dispose of tubes and other trash. Clean up! Use bleach to wipe down tables.

NOTE: **Always** label! Label on top of microfuge tube and on tape for test tubes. Use black sharpie.

Parts

Tube Number	Part	Antibiotic Resistance