Chemical Transformation protocol

Goal- to transform chosen bacteria with cloned DNA by heat shock.

Materials:
*Ice
*Competent cells
*SOB
*LB-agar plates with antibiotics
*DNA

Procedure:

1. Pre-heat water bath to 42 °C and warm plates in incubator.
2. Defrost 100 µL of Competent cell for 10-15 minutes on ice.
3. Add DNA to the cells.
4. Incubate on ice for 30 minutes. During this time make SOC and Pre-heat it to 37°C (in shaker)
5. heat shock cells:
6. incubating cells at 42°C for 30 seconds in water bath.
7. Incubate on ice for 2 minutes.
8. Add 900 µL of SOC using bunsen and incubate at 37°C for 1 hour.
9. Plate the cells on appropriate antibiotic plates- 100 µL and rest.
10. Incubate overnnight at 37°C in a static incubator.