

Transformation

1. Add 0.5 μ L plasmid in a new Eppendorf tube.
2. Unfreeze DH5 α Ecoli competent cells on ice.
3. Add 50 μ L competent cells to the plasmid. Stir with a pipette. Then set the EP tube on ice immediately.
4. Incubate on ice for 30min.
5. Heat shock the cells for exactly 90s at 42 $^{\circ}$ C water bath.
6. Place back on ice for 5min.
7. Add the prepared cells into a new EP tube with 500 μ L none antibiotic LB medium. Shake the tube at 37 $^{\circ}$ C for 3min.
8. Prepare several antibiotic plates and one without antibiotic as a control group.
9. Plate 100 μ L for a reaction product.
10. Incubate the plates upside down overnight over night at 37 $^{\circ}$ C.