

Transformation

Reagent

Competent cells (Synbio Tech Co., Ltd.)

LB broth (Synbio Tech Co., Ltd.)

LB agar plate (with antibiotics) (Synbio Tech Co., Ltd.)

Plasmid DNA solution

Procedure

1. Obtain 50 μ l of competent cells in the 1.5mL centrifuge tube, labeling them and keeping on ice until thawed.
2. Finger flick to be sure cells are in suspension
3. Pipette 10 μ L of the plasmid DNA solution to the tube. Mix the tube gently.
4. Incubate the tubes on ice for additional 20 min.
5. Heat pulse the cells for 90 seconds at 42°C.
6. Return the tubes onto to ice quickly and incubate the tubes on ice for 5 minutes.
7. Keep LB broth on ice to cool it down.
8. Pipette 700 μ L/tube of cooled down LB broth to the tubes and shake for 45 minutes at 37°C.
9. Label LB agar plates (with antibiotics) at backs of Petri dishes.
10. Centrifuge the tubes at 800rpm for 5min.
11. Discard half of the upper liquid and re-suspend the cells.
12. Plate 70 μ L from the tube labeled onto corresponding plate.
13. Spread the cell suspension on the plates using a glass rod.
14. Place the plates inverted (lid down) in the 37°C incubator overnight.