Competent Cell Preparation

The first method

- Overnight cultivate glycerol bacteria, and transfer to the new no resistant medium on the second day afternoon. Measure the OD value every hour.
- 2. While the OD value is between 0.3-0.4, put the bacteria in the 1.5ml sterile centrifuge tube. (Full), stewing on the ice for 15-20 minutes.
- 3. Condition:4000rpm,2 min, centrifuge under 4°C (Pre-cool the centrifuge to 4°C and push the "fast cool" button)
- 4. Abandon supernatant, add 800µl pre cooling calcium chloride, re suspend sedimentation, bath for 30 minutes.
- 5. Add 200µl of calcium chloride to resuspend the precipitate to obtain competent cells, take 50µl for conversion.

The second method

- 1. Add 100μl pKD46-transformed E.coli BW25113 to 7ml liquid LB medium, along with 7μl ampicillin solution, shaking overnight at 30°C.
- 2. Take 5% of bacterium solution into 30ml no resistant liquid LB medium within 30μl ampicillin solution, cultivating at 30°C shaker.
- 3. Detect OD600 each hour until it is between 0.3 and 0.4.
- 4. Add L-Arabinose until its concentration is 30mmol/L. Then shake it at 30 ℃ for 1h.
- 5. Take all of the bacterium solution into 1.5ml centrifuge tubes, ice bath for 10min.
- 6. Centrifuge the bacterium solution in the conditions of 5000rpm and 4° C for 10min, abandoning the supernatant.
- 7. Suspend the sediment with pre-cooling 50% sterile glycerin till 1ml, centrifuging in the conditions of 5000rpm and 4°C for 2min, repeat for 3 times.
- 8. Suspend the sediment with 300µl glycerin.