



Why to do this :

1. To extract plasmidic DNA in order to verify or to ligate various parts

What you need :

1. Culture media : LB

- 10 g bactotrypton
- 5 g yeast extract
- 5 g NaCl
- 0,5 mL NaOH 10N
- Qsp 1 L

2. Antibiotics concentrations

Chloramphenicol (Cm) : 2 mg/mL

Tetracycline (Tet) : 1 mg/mL

Kanamycin (Kann) : 5 mg/mL

Ampicillin (Amp) : 10 mg/mL

→ 50 µL antibiotic / 5mL medium

3. Apparatus : centrifuge, Speed Vac

4. Material

- a) An overnight culture at 37°C of the transformed strain
- b) 100 µL of the A solution
- c) 200 µL of the B solution
- d) 150 µL of the C solution
- e) 1 mL of 100% alcohol
- f) 1 mL of 70% alcohol
- g) 50 µL of TE containing RNAse at 20 µg.mL⁻¹

How to do :

5. Step 1

- a) Take 1.5 mL of the culture into a micro tube
- b) Centrifuge for 2 minutes at 12 000 rounds per minute (rpm)
- c) Remove the supernatant
- d) Add 100 µL of the A solution and homogenize by pipetting
- e) Let the mixture rest for 5 min at room temperature

6. Step 2

- a) Add 200 µL of the B solution and shake the tube by inversion (the mixture should become viscous)

7. Step 3

- b) Add without waiting 150 µL of the C solution

- c) Vigorously shake by inversion, then vortex a bit
- d) Let the mixture rest for about 3-5 min (a white "blob" should appear)
- e) Centrifuge for 7 min at 13 000 rpm
- f) Prepare an tube containing 1 mL of 100% alcohol
- g) When the centrifugation is over, take up to 400 μ L of the supernatant (be sure not to take anything from the precipitate) and put it in the alcohol
- h) Shake by inversion
- i) Rest for 2 min

8. Step 4

- j) Centrifuge for 10 min at 12 000 rpm
- k) Remove the 100% alcohol then add 1 mL of 70% alcohol
- l) Shake, vortex a bit, then centrifuge for 3 min at 12 000 rpm
- m) Remove the alcohol as much as possible
- n) Evaporate the remaining alcohol in the Speed Vac for about 5 min (10 maximum)
- o) Add 50 μ L of the TE + RNase and homogenize