



Why to do this :

1. To determine the quantity of curli

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 μ L antibiotic / 5mL medium

How to do :

3. Bacteria culture

- a) Prepare 50mL of liquid culture
- b) Take 20mL of this culture (if you are testing several strains at once, adjust the quantity in order to have the same OD for each strain)

4. DMG method

- a) Centrifuge 10 min at 10000g
- b) Remove supernatant
- c) Add 5mL of ultrapure water
- d) Centrifuge 10 min at 10000g
- e) Remove the water (be careful not to dissolve the pellet, centrifuge again if needed)
- f) Add 20mL of Nickel solution at 100 μ M
- g) Let the contact happens during 30min, on the rotating
- h) Centrifuge 10 min at 10000g
- i) Recover the non-colored supernatant, recentrifuge if needed until the supernatant is totally recovered.
- j) Filtrate the supernatant with a bacteria filter (pores of 45 μ m)
- k) Keep the filtrated supernatant
- l) Add 50 μ L of DMG at 50 μ M on each supernatant
- m) Measure the OD at 554nm of the supernatant for each strain.