OD₆₀₀ test

<u>Aim</u>: The aim is to test the activity of our Bacillus *subtillis* strains (particularly the lysostaphin effect) on Staphyloccocus *epidermidis* or *aureus* cultures.

Protocole

Day 1:

- Make liquid cultures of the Bacillus strains you want to test in 5 mL of TSB. Incubate overnight at 30 °C.
- Make a liquid culture of S. epidermidis in 5ml of LB. Incubate overnight at 37°C.

Day 2:

- Before starting, switch the spectrophotometer on.
- Measure the OD_{600} of each culture. Continue the incubation of Bacillus cultures until all have the same OD_{600} ($OD_{600} \approx 4$).
- Centrifuge each culture 4 minutes at 5000 rpm.
- For S.epidermidis culture: remove the supernatant and add M63 or another non nutritive medium to obtain a culture with an $OD_{600} \approx 0.8$. For Bacillus cultures, filter the supernatants on 0,22 μ m filters.
- Put 0,5mL of S.epidermidis culture and 0,5mL of Bacillus cultures you want to test in each spectrophotometer tank.
- Make the blank with the appropriate medium mix. Measure OD₆₀₀ during 6 or 12 hours. Don't forget to shake the culture 1 minute before each measure to homogenize the solution.

