Protocol for growth curves of different organisms

a) Lactobacillus casei ATCC 0334 Growth Curve

Protocol Code: GC_Lacto

Materials

- L.casei fresh plate
- MRS medium
- Centrifuge
- Shaker
- Biotek Synergy HTX Multi-mode microplate reader NaOH
- Falcons

Procedure

Day 1. Pre culture

1. From a relative fresh plate of L. casei, pick a colony and growth O/N at 37 °C in a falcon with 25 ml of MRS médium and incubate in a shak

Day 2. Curve elaboration

1. Centrifuge at 5000 rpm for 10 minutes and resuspended the pellet with MRS medium, to a final OD of 0.01 and 0.5.
2. Incubate for 18 h at 37 °C, at slow rpm (12)
3. Measure at a wavelength of 600 nm in the Biotek Synergy HTX Multi-mode microplate reader.

b) *Escherichia coli DH5*α Growth Curve

Protocol Code: GC_Coli

Materials

- Viable *E. coli DH5*α
- Liquid medium LB
- Chamber at 37°C
- 15 flask of 125 mL
- Biotek Synergy HTX Multi-mode microplate reader
- Centrifugue

Procedure

Day 1. Pre culture

1. From a relative fresh plate of E. coli, pick a colony and growth O/N at 37 °C in a falcon with 25 ml of LB medium and incubate in a shaker.

Day 2. Curve elaboration

1. Centrifuge at 5000 rpm for 10 minutes and resuspended the pellet with LB medium, to a final OD of 0.01.
2. Incubate for 8 h at 37 °C, at slow rpm (120).
3. Take samples every hour.
4. Measure at a wavelength of 600 nm in the Biotek Synergy HTX Multi-mode microplate reader for the OD.