Team Brasil-SP iGEM 2014



Transformation in *E. coli* DH5α

Materials

- Sterile 1.5 mL microtubes
- 1 LB agar plate containing the appropriate antibiotic
- Liquid LB
- Competent cells
- Plasmidial DNA

Apparatus

- Laminar flow hood
- Water bath
- Shaker
- Incubator

Method

- 1. Briefly spin the competent cells to collect all drops and put then on ice.
- 2. Add the total volume of the ligation mixture (or 50 ng of plasmidial DNA) in a sterile 1.5ml tube.
- 3. Add 50 μ L of competent cells in the same tube and mix by pipetting carefully.
- 4. Keep the tube on ice for 25min.
- 5. Heat shock each transformation tube by placing it into a 42°C water bath for 2 min.
- 6. Put the tube on ice for 5 min.
- 7. Add 200 μ L of liquid LB.
- 8. Incubate at 37°C/ 250rpm for 1 hour.
- 9. Plate the suspension on a LB agar plate containing the appropriate antibiotic.
- 10. Incubate overnight at 37°C.