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Transformation


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Protocol status: Working

We use this protocol and it's working

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Abstract

A protocol for transforming *E. coli* cells is shown.

Materials

MATERIALS:

- Competent cells
- LB plates + antibiotic (depends on the used part)
- Drigalski spatula
- Eppendorf tubes of 1.5 mL

SOLUTIONS:

- SOC medium

EQUIPMENT:
















- Water Bath at 42 °C
- Cooler and ice

Troubleshooting



Transformation

2h 30m 30s

- 1 Mix  50 μL of fresh competent cells with  2 μL of genetic material (softly without pipetting) in a sterile 1.5 mL Eppendorf tube.
- 2 Incubate  On ice for  00:30:00 30m
- 3 Apply thermal shock in a water bath at  42 °C for  00:00:30 30s
- 4 Immediately, put  On ice
- 5 Add  250 μL of SOC medium (tempered at  37 °C).
- 6 Incubate at  37 °C for  01:00:00 at  225 rpm . 1h
- 7 Disseminate  50 μL in a selective medium and incubate  Overnight at  37 °C 1h