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## Bacteria Transformation

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Carolina Lopez<sup>1</sup>

<sup>1</sup>Washington University



Cecilia Escudero

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Protocol status: Working We use this protocol and it's

working

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#### **Abstract**

General protocol for bacteria transformation



## Materials

### **Reagents:**

- Competent E. coli cells (NEB, C3040H)
- LB plates with necessary antibiotic
- 50% Glycerol



#### **Bacteria Transformation:**



- - 2. Incubate for (5) 00:20:00 on ice.

  - 4. Incubate on Ice for (5) 00:03:00 .
  - 5. Add  $\perp$  100  $\mu$ L of SOC media and shake in warm room for  $\bigcirc$  01:00:00 .
  - 6. Pipette  $\triangle$  100  $\mu$ L of bacteria onto LB-Antibiotic Plate and spread cells out with plate spreader to get individual colonies.
  - 7. Incubate overnight in 37 °C warm room.
  - 8. Pick colonies for miniprep growth and sequencing.

# Glycerol Bacteria Stocks:

- 2 1. In screw top  $\[ \ \ \] \]$  tube. Mix  $\[ \ \] \]$  of Bacteria Solution (Either from Miniprep or Maxiprep before centrifugation) and  $\[ \] \]$  500  $\[ \mu L \]$  of 50% (v/v) Glycerol Solution.
  - 2. Store at 🔓 -80 °C .
  - 3. To pull out bacteria, use bacteria loop to scrap some of still frozen glycerol stock and streak bacteria onto LB-Antibiotic plate. Then pick colonies for growth.