

WOW Biolab: Bacterial Transformation

McDougal Littell Virtual Biology Labs

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Background: You have successfully engineered a recombinant bacterial plasmid, congratulations! Now it is time to transform it into the *E. coli* bacteria. In this computer simulation you will replace the scissors and tape with petri dishes, chemicals, thermal processes, and scientific equipment. As you complete the problem, record your protocol and results.

Problem: Because previous types of insulin production caused adverse reactions in patients, alternate production methods were necessary. Through the process of bacterial transformation, human insulin genes are inserted into *E. coli* bacterial cells. The transformed *E. coli* produce human insulin that can be used to treat patients with diabetes. In this investigation, you will transform the recombinant plasmids into *E. coli* and test for antibiotic resistance to prove your transformation was successful.

Materials	Use
<i>E. coli</i> bacteria	Source material
Tubes of CaCl ₂	Changes the cell wall to allow DNA to enter
<i>E. coli</i> plasmids with amp ^R	Recombinant DNA with ampicillin
Sterile pipette	To transfer plasmids to CaCl ₂
Ice water bath	Prevents <i>E. coli</i> from dividing while plasmids are taken in
Warm water bath	Will allow the bacteria more readily take in plasmids
Agar infused with ampicillin	Nutrient media with ampicillin
Agar not infused with ampicillin	Nutrient media
Sterile inoculating loops	To spread the bacteria onto the agar
Biohazard container	Safely dispose equipment
Incubator	Ideal temperature to grow bacteria
Sterile toothpicks	Transfer <i>E. coli</i> from stock to solution

Hypothesis:

Petri Dish	Growth (y/n)	Reasoning
#1: Control Agar with <i>E. coli</i> +amp ^R	Yes (most)	No antibiotic and resistance gene
#2: Agar + Ampicillin with <i>E. coli</i> +amp ^R	Yes	Antibiotic agar, but has resistance gene
#3: Control Agar with <i>E. coli</i> -amp ^R	Yes (most)	No antibiotic, no resistance gene
#4: Agar + Ampicillin with <i>E. coli</i> -amp ^R	No	Antibiotic and no resistance gene

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