

6.08 BACTERIAL TRANSFORMATION LAB REPORT

Instructions: In this virtual lab activity, you will transform *E. coli* bacteria to express ampicillin resistance using the plasmid transfer of DNA. During this transformation process, you will investigate how bacteria take up plasmids in different environmental conditions. Finally, you will apply mathematical routines to determine the transformation efficiency of each trial. Submit your lab report to your instructor when completed.



☀ Having trouble? Use this **Teacher Walkthrough Presentation** ([Heat Shock](#) or [Plasmid Concentration](#)) for step-by-step instructions.

TITLE:

Include the name of the lab (be descriptive) and your name.

OBJECTIVE(S):

You will be able to select one of two research questions listed below. Create your objectives based on the research question you select.

- Can the length of heat shock during incubation affect plasmid transfer?
- Can the concentration of plasmids during incubation affect plasmid transfer in *E. coli*?

INTRODUCTION - GENETIC TRANSFORMATION:

Is it safe to eat fruit and vegetables that are genetically modified to contain toxins that ward off pests or help crops grow faster and larger? Presently, biotechnologists can manipulate a cell's own DNA and change how a gene is expressed, and by extension, how a cell behaves. They do so by transferring the DNA from one organism into another using a bacterial plasmid. With this tool, they can make cells produce protein products that the cells did not make before, such as immunity against pests or additional growth factors.

In the © Pearson Lab Bench, you learned how *Escherichia coli* (*E. coli*) bacteria can be transformed with plasmid DNA, and through gene expression of the new DNA, can become resistant to the antibiotic ampicillin. Using this technique in the virtual lab, you will have the opportunity to explore how different environmental conditions affect plasmid transfer.

INTRODUCTION - GENETIC TRANSFORMATION REFLECTION QUESTIONS:

1. What is the function of plasmids in bacteria?

Answers For Classzone Bacterial Transformation Lab

Kathleen Armour



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