

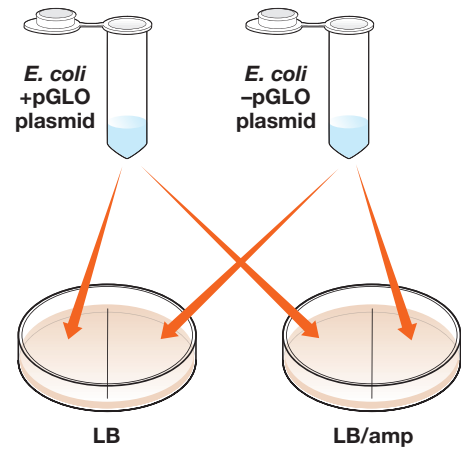
# Activity 2

## Bacterial Transformation Laboratory Activity

### Background

In this experiment you will transform *E. coli* with the **pGLO** plasmid. Then you will grow, or culture, those bacteria overnight on solid media called **LB agar**, which is a nutrient source for bacteria.

You will have two *E. coli* samples, one with pGLO plasmid added, called +pGLO, and another without pGLO called -pGLO. You will follow the same bacterial transformation protocol for both samples. Then, you will culture each sample on LB agar plates with and without ampicillin. The +pGLO sample will be added to one side of each LB agar plate and the -pGLO sample to the other side. Then the plates will be incubated overnight to let the bacteria grow.



**Fig. 5. pGLO bacterial transformation experiment setup.**

**A. In Table 1 below, sketch and describe the results you expect after you complete the experiment.**

**Table 1. Predicted results.**

<p><b>LB Plate (LB)</b></p> <div style="text-align: center; margin-bottom: 10px;"> <span style="margin-right: 100px;">+pGLO</span> <span>-pGLO</span> </div>	<p><b>LB Plate with ampicillin (LB/amp)</b></p> <div style="text-align: center; margin-bottom: 10px;"> <span style="margin-right: 100px;">+pGLO</span> <span>-pGLO</span> </div>
<p>Description</p>    	<p>Description</p>    