

Bacterial Transformation: the pGLO™ System

8-2

OBSERVATIONS AND INTERPRETATIONS

- Record the appearance (clear, violet, or fluorescent green) of the pGLO™ plasmid solution in natural light and in the dark with only UV illumination.
- Record your observations of the plates after incubation in the table below.

Plate	Inoculum	Number of Colonies	Colony Appearance in Ambient Light	Colony Appearance with UV Light
LB	<i>E. coli</i> (-pGLO™ DNA)			
LB/amp	<i>E. coli</i> (-pGLO™ DNA)			
LB/amp	<i>E. coli</i> (+pGLO™ DNA)	Able to grow on amp	Green	Green
LB/amp/ara	<i>E. coli</i> (+pGLO™ DNA)		Green	Green

QUESTIONS

- Fill in the genotype of *E. coli* prior to transformation and after transformation for the GFP and the *bla* genes.

<i>E. coli</i>	GFP Gene (GFP ⁺ or GFP ⁻)	<i>bla</i> (<i>bla</i> ⁺ or <i>bla</i> ⁻)
Before transformation		
After transformation		

- What was the purpose of examining the original pGLO™ solution with and without UV illumination?
- What was the purpose of transferring the + DNA and - DNA tubes from ice to hot water to ice again?
- Why were microtubes incubated for 10 minutes in LB broth rather than transferring their contents directly to the plates?

Teacher Manual Pglo Transformation Answer Key

Leo Fay, Richard Arnold, Bruce Balow



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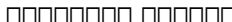
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