

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

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Teacher Manual Pglo Transformation Answer Key:

The Enigmatic Realm of **Teacher Manual Pglo Transformation Answer Key**: Unleashing the Language is Inner Magic

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Table of Contents Teacher Manual Pglo Transformation Answer Key

1. Understanding the eBook Teacher Manual Pglo Transformation Answer Key
 - The Rise of Digital Reading Teacher Manual Pglo Transformation Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Teacher Manual Pglo Transformation Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Teacher Manual Pglo Transformation Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Teacher Manual Pglo Transformation Answer Key
 - Personalized Recommendations
 - Teacher Manual Pglo Transformation Answer Key User Reviews and Ratings
 - Teacher Manual Pglo Transformation Answer Key and Bestseller Lists

5. Accessing Teacher Manual Pglo Transformation Answer Key Free and Paid eBooks
 - Teacher Manual Pglo Transformation Answer Key Public Domain eBooks
 - Teacher Manual Pglo Transformation Answer Key eBook Subscription Services
 - Teacher Manual Pglo Transformation Answer Key Budget-Friendly Options
6. Navigating Teacher Manual Pglo Transformation Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Teacher Manual Pglo Transformation Answer Key Compatibility with Devices
 - Teacher Manual Pglo Transformation Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Teacher Manual Pglo Transformation Answer Key
 - Highlighting and Note-Taking Teacher Manual Pglo Transformation Answer Key
 - Interactive Elements Teacher Manual Pglo Transformation Answer Key
8. Staying Engaged with Teacher Manual Pglo Transformation Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Teacher Manual Pglo Transformation Answer Key
9. Balancing eBooks and Physical Books Teacher Manual Pglo Transformation Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Teacher Manual Pglo Transformation Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Teacher Manual Pglo Transformation Answer Key
 - Setting Reading Goals Teacher Manual Pglo Transformation Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Teacher Manual Pglo Transformation Answer Key
 - Fact-Checking eBook Content of Teacher Manual Pglo Transformation Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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