

## Data and Analysis for pBLU<sup>®</sup>

1. Predict your results. Write "yes" or "no," depending on whether you think the plate will show growth. Give the reason(s) for your predictions.
2. Observe the colonies through the petri plate lids. Do not open the plates.



Prediction:  
Reason:

Observed Result:



Prediction:  
Reason:

Observed Result:



Prediction:  
Reason:

Observed Result:



Prediction:  
Reason:

Observed Result:



Prediction:  
Reason:

Observed Result:



Prediction:  
Reason:

Observed Result:

3. Record your observed results in the spaces above. If your observed results differed from your predictions, explain what you think may have occurred.
4. Count the number of individual colonies and, using a permanent marker, mark each colony as it is counted. If the cell growth is too dense to count individual colonies, record "lawn."

LB+plasmid (Positive Control)  
LB/Amp+plasmid (Experimental)  
LB/Amp/X-gal+plasmid (Experimental)

LB-plasmid (Positive Control)  
LB/Amp-plasmid (Negative Control)  
LB/Amp/X-gal-plasmid (Negative Control)

5. Compare and contrast the number of colonies on each of the following pairs of plates. What does each pair of results tell you about the experiment?
  - a. LB+plasmid and LB-plasmid
  - b. LB/Amp-plasmid and LB-plasmid

# Data And Analysis For Pblu Lab Answers

**M Mosston**



## **Data And Analysis For Pblu Lab Answers:**

Introduction to Statistical Analysis of Laboratory Data Alfred Bartolucci, Karan P. Singh, Sejong Bae, 2015-11-02

Introduction to Statistical Analysis of Laboratory Data presents a detailed discussion of important statistical concepts and methods of data presentation and analysis. Provides detailed discussions on statistical applications including a comprehensive package of statistical tools that are specific to the laboratory experiment process. Introduces terminology used in many applications such as the interpretation of assay design and validation as well as fit for purpose procedures including real world examples. Includes a rigorous review of statistical quality control procedures in laboratory methodologies and influences on capabilities. Presents methodologies used in the areas such as method comparison procedures, limit and bias detection, outlier analysis, and detecting sources of variation. Analysis of robustness and ruggedness including multivariate influences on response are introduced to account for controllable/uncontrollable laboratory conditions.

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