



Inhibition of Bacteria

Worksheet

AgriBiotechnology
Quality Control

Interval 1
Segment 5

Are cleaning products able to inhibit the growth of bacteria? Let's find out. Among the cleaning products you are using, which one do you think will be the best bacterial growth inhibitor? _____

What other questions do you believe this experiment will help you to answer? (for example, antibacterial products vs. regular products) _____

Record the names of the cleaning products across the first row. Be sure to introduce the cleaning products to their corresponding numbers on the bacterial plates.

Cleaning Product					
Corresponding Circle Number on Bacterial Plate	1	2	3	4	5
Observations After 24 Hours					
Observations After 48 Hours					
Observations After 72 Hours					

Additional comments and drawings should be done on notebook paper and placed into your *Lab Journal*, which is a part of your portfolio. Make sure you reference the cleaning product, circle number, and time of observation on any entry or drawing.



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Analyze Data

Using the data table for reference, construct some type of graph that makes interpreting the data easier. You might construct a bar graph or line graph. The x-axis, or horizontal axis, might be “Cleaner Type,” and the y-axis, or vertical axis, might be “Relative Number of Bacteria.” Instead of using exact numbers, you might want to use designations such as “low,” “medium,” and “high.” Use of either your own paper or *Microsoft Word* for constructing a graph is acceptable.

Conclusion

After analyzing the data, make a conclusion. Are cleaning products able to inhibit the growth of bacteria? Was your guess correct? Based on these results, list any other questions that are suitable for further experimentation.