

Introduction to E. coli Lab - Biofundamentals

Name:

Date:

LA section:

Experiment 1: Determining the doubling time of E. coli in LB at 37°C.

Use the vSpec- include an image of your data graph!

Answer the questions

Q1: What would happen to your growth rate if you did not rotate the culture (and why)?

Q2: Why are there differences between the growth rate curves you measure in your first and second cultures?

Q3: What is the source of variation in your studies?

Q4: Two substrains show different doubling times under standard conditions; provide a testable hypothesis for why that might be

Experiment 2: Titering a culture (or determining CFUs/ml)

Determine the CFU/ml of your culture.

Print/Save a copy of your vDatapad that shows that you obtained the correct number.

Describe, in your own words, what is meant by sampling error?