

Microbial Kinetics: Growth Curve Models

PROBLEM 1: Growth Curve Models

The following figure shows a typical bacterial growth curve. The y-axis represents the number of cells (log scale) and the x-axis represents time (hours). The curve starts at a low cell count, increases rapidly during the exponential phase, and then levels off during the stationary phase. The curve is labeled with the following phases: lag phase, exponential phase, stationary phase, and death phase.

PROBLEM 2:

- a. What is the lag phase?
- b. What is the exponential phase? What is the stationary phase?
- c. What is the death phase? What is the stationary phase?

PROBLEM 3:

Graphical Analysis

- a. Plot the number of cells (log scale) versus time (hours). The curve should show the lag phase, exponential phase, stationary phase, and death phase.
- b. Calculate the growth rate (μ) during the exponential phase.
- c. Calculate the lag time (λ) during the lag phase.
- d. Calculate the death rate (k) during the death phase.
- e. Calculate the maximum cell density (N_{max}) during the stationary phase.
- f. Calculate the carrying capacity (K) during the stationary phase.
- g. Calculate the doubling time (t_d) during the exponential phase.
- h. Calculate the generation time (t_g) during the exponential phase.
- i. Calculate the death rate (k) during the death phase.
- j. Calculate the lag time (λ) during the lag phase.
- k. Calculate the stationary phase duration (t_s) during the stationary phase.
- l. Calculate the death phase duration (t_d) during the death phase.
- m. Calculate the total duration (t_t) of the growth curve.

Growth Curve



Figure 1: Growth Curve

	Exponential Phase	Stationary Phase	Death Phase
Time (hours)			
Cell Count (log scale)			
Growth Rate (μ)			

PROBLEM 4: Growth Curve Models

- a. What is the lag phase? What is the exponential phase? What is the stationary phase? What is the death phase?
- b. What is the growth rate (μ) during the exponential phase? What is the death rate (k) during the death phase?

Golden Penny Lab Answer Key

Hongru Du

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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