

A YEAST POPULATION STUDY

Name Date

1. INTRODUCTION

A population study of living organisms may be difficult in the laboratory for several reasons. Reproductive cycles of some organisms can take months or years. Proper maintenance and growth of a population under ideal condition may be difficult. Also, accurate counting of actual numbers of a population often requires elaborate equipment or sampling techniques. Study of a population in a laboratory is artificial compared to an actual population in nature. Many environmental factors which are interrelated in nature cannot be duplicated in a laboratory.

Biologists often study population trends using microorganisms such as yeast. The problems listed above are lessened somewhat when dealing with this type of organism. Yeasts can be maintained easily in test tubes, they reproduce rapidly under ideal conditions, and a simple sampling technique can be used to count a yeast population.

2. PROCEDURE

Figure 1 represents population samples taken from a test tube yeast population. The samples are on special glass slides with lines etched on them. Each figure represents the view as seen through a microscope.

1. Count the total number of yeast cells (small circles) in each of the three samples for 0 hours.
As an aid counting, the areas are divided into 16 small squares. You may wish to place a pencil dot inside those cells counted so that you do not count any twice.
2. Record in Table 1 the number of cells counted in each of the three areas for 0 hours of growth.
3. Determine and record in the proper column of Table 1 the total number of cells for 0 hours.
4. Compute the average number of yeast cells per area to one decimal place. Record the average in Table 1.
5. Repeat the four previous steps for yeast samples at 24, 48, 72, 96 and 120 hours.
All cells in the test tube population were not counted on the glass slides. Only a small sample was counted. Thus, this method of determining population is called a sampling technique. Multiplying all average yeast cell counts in Table 1 by 1000 will give an estimate of the number of cells in the entire population. A volume equal to only 1/1000 the original yeast population was placed on the counting slides.
6. Record in the row "Entire Population" of Table 1 the total number of yeast cells in the population.
7. In Figure 2, construct a graph of your data. Use values representing the total number of yeast cells (entire population) present during 0, 24, 48, 72, 96, and 120 hours.

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