Name: _____ Group: _____ Date: _____

LAB 69
OBSERVATION

STUDYING BAKER'S YEAST

STUDENT BOOK	Chapter 8, page 238
TOOL BOX	pages 23, 25

Goal

– Observe baker's yeast under a microscope.
– Recognize the different parts of a cell.

Observation criteria

1. Is yeast a living organism composed of one cell or many cells?

_____

_____

_____

2. In what group of living organisms does yeast belong?

_____

_____

3. Do yeast cells have a nucleus?

_____

4. Is baker's yeast harmful to human health?

_____

_____

_____

Materials

- container of dry baker's yeast
- spatula
- test tube (15 mm × 125 mm)
- test-tube rack
- wash bottle of distilled water
- 10-mL graduated cylinder
- glass stirring rod
- dropper bottle of methylene blue
- dropper
- slide
- cover slip
- light microscope

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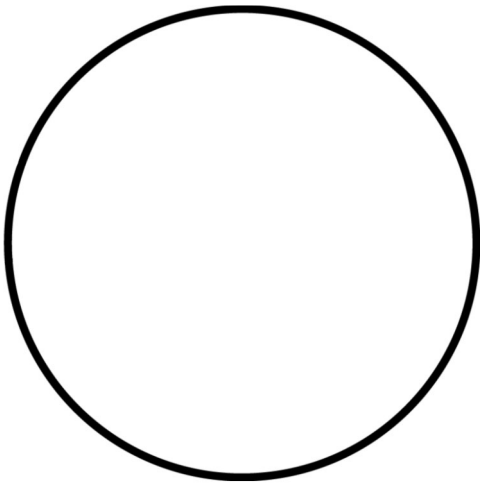
Procedure

1. Add a few particles of dry yeast to the test tube.
2. Measure 10 mL of distilled water with the graduated cylinder.
3. Pour the water into the test tube.
4. Slowly mix the contents with the glass stirring rod.
5. Add four drops of methylene blue to the test tube.
6. Take a sample of the contents with the dropper and place one drop on the slide.
7. Cover the slide with the cover slip.
8. Observe the sample under the microscope at the highest degree of magnification.
9. Locate the yeast and draw it.
10. Label the visible structures of the yeast.
11. Clean up and put away materials.

Observations

Illustrate your observations in the space below. Give the illustration a title.
Indicate the degree of magnification used.

Title:



Magnification _____

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Reflecting on your observations

1. What is the shape of baker's yeast?

2. What cell structures can be observed?

3. Do your observations help you to better understand the structure of a cell?

4. How could other parts of this cell be observed?

5. How could you improve the protocol for this lab?

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