

Name(s): _____

Alcoholic Fermentation Lab

Pre-Lab Questions



1. Based on the equation presented, what do you think will happen to the balloon? Why?
2. When should you taste the glucose solution or put your mouth on the balloon?
3. What will happen if you taste the glucose solution or put your mouth on the balloon?

Materials: yeast, juice, test tube, beaker, hot plate, pipette, balloon, clock

Procedure:

1. Add yeast to test tube.
2. Fill test tube about ½ full with warm juice (careful, this may be hot—use pipette).
3. Place thumb over top of tube and shake 30s.
4. Place balloon over top of test tube making sure it is well covered.
5. Place test tube in rack.
6. Bring your test tube back to your table.

Draw a picture of your balloon/test tube at 0-minutes below:

Draw a picture of your balloon/test tube at 15-minutes below:

Post-Lab Questions

1. What are the reactants in the observed reaction?
2. What are the products?
3. Why is anaerobic fermentation important for living organisms?
4. How do people use the respiration powers of yeast? Or more specifically, what things can you make with yeast?
5. Yeast is classified as a fungi (not a bacteria). Is yeast a prokaryote or eukaryote? Does it have a nucleus?

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