Name: _____ Group: _____ Date: _____

LAB 1
OBSERVATION

SOLUTION OR COLLOID?

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Goal

Learn to distinguish between a solution and a colloid.

Observation criteria

1. What is a solution?

_____

_____

_____

2. What is a colloid?

_____

_____

_____

3. How can a solution and a colloid be distinguished?

_____

_____

_____

Materials

- 6 slides
- 6 cover slips
- light microscope
- dropper bottle of milk (not skim)
- dropper bottle of toothpaste
- dropper bottle of apple juice
- dropper bottle of mayonnaise
- dropper bottle of shampoo (clear brand)
- dropper bottle of black coffee (drip)

Procedure

1. Place a drop of milk on one slide.
2. Gently set cover slip on top of the milk.
3. Observe the milk under the microscope. Record your observations.
4. Repeat steps 1 to 3 with each of the other five mixtures.
5. Clean up and put away materials.

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Observations

Record your observations in the table below. Give the table a title.

Title:

Mixture	Observation under microscope

Reflecting on your observations

1. Do your observations help you to better understand the difference between a solution and a colloid? Explain your answer.

_____

2. Which mixtures are solutions?

_____

3. Which mixtures are colloids?

_____

4. How would you describe the solutions:

a) when observed with the naked eye?

_____

_____

b) when observed using a microscope?

_____

_____

5. How would you describe the colloids:

a) when observed with the naked eye?

_____

_____

_____

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b) when observed using a microscope?

6. How can a solution and a colloid be distinguished with the naked eye?

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