

LABORATORY OBJECTIVES—Lab #2

After completing this laboratory assignment, the student should be able to:

1. Explain the difference between mechanical and chemical digestion.
2. Describe where mechanical digestion occurs in the alimentary canal.
3. Explain the role of bile in the emulsification of fats.
4. Name the environmental factors that affect enzyme action.
5. Name the enzymes responsible for the hydrolysis of carbohydrates, lipids, and proteins in the alimentary canal.
6. Name the breakdown products of hydrolysis of carbohydrates, lipids, and proteins in the alimentary canal.
7. Describe the structure of a villus and explain its role in absorption.
8. Recognize positive and negative chemical tests for carbohydrates, lipids, and proteins.