

Enzymes and Lactose Intolerance

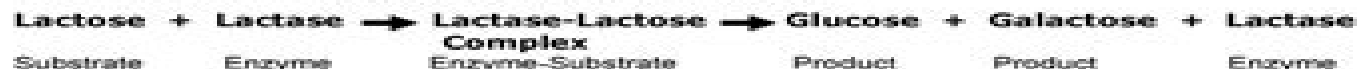
Introduction:

When some people eat dairy products (milk, ice cream, and cheese), they experience digestive discomforts such as flatulence (gas), bloating, cramping, and even diarrhea. These individuals do not produce enough of an enzyme called lactase, the enzyme that digests lactose, a carbohydrate found in milk.

When undigested lactose accumulates in the intestine of a person with lactose intolerance, bacteria in the intestine feed on the lactose and produce waste gases that cause flatulence and bloating. Large amounts of undigested lactose may also cause water to diffuse from the blood into the intestine resulting in diarrhea.

Part 1: Modeling Lactase Activity

Lactase is a protein enzyme that digests (breaks down) lactose (milk sugar) into glucose and galactose (smaller sugars). The chemical equation below illustrates what happens when the enzyme lactase digests lactose (milk sugar).



1. Your lab kit contains a sheet of labeled colored drawings of "Molecules Involved in the Digestion of Lactose." Cut these drawings out.
2. Your kit also contains a sheet with the "Chemical Equation for the Digestion of Lactose." Tape or glue the cut out drawings of the molecules in the appropriate boxes on this sheet.
3. What is the name of the molecule that is the enzyme? _____
4. What is the name of the molecule that is the substrate? _____
5. What word ending is associated with enzymes—"ose" or "ase"? _____

Science Take Out Answers

Jiyuan Zhang



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