

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).

Lactose +	Lactase	Lactase-Lactose -	Glucose ·	 Galactose + 	Lactase
		Complex			
Substrate	Enzyme	Enzyme-Substrate	Product.	Product	Enzyme

- 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

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Table of Contents Science Take Out Answers

- 1. Understanding the eBook Science Take Out Answers
 - The Rise of Digital Reading Science Take Out Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Science Take Out Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Science Take Out Answers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Science Take Out Answers
 - Personalized Recommendations
 - Science Take Out Answers User Reviews and Ratings
 - Science Take Out Answers and Bestseller Lists
- 5. Accessing Science Take Out Answers Free and Paid eBooks

- Science Take Out Answers Public Domain eBooks
- Science Take Out Answers eBook Subscription Services
- Science Take Out Answers Budget-Friendly Options
- 6. Navigating Science Take Out Answers eBook Formats
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 - Science Take Out Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Science Take Out Answers
 - Highlighting and Note-Taking Science Take Out Answers
 - Interactive Elements Science Take Out Answers
- 8. Staying Engaged with Science Take Out Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Science Take Out Answers
- 9. Balancing eBooks and Physical Books Science Take Out Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Science Take Out Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Science Take Out Answers
 - Setting Reading Goals Science Take Out Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Science Take Out Answers
 - Fact-Checking eBook Content of Science Take Out Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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