

Lactose Intolerance

Enzyme Digestion Demonstration

Introduction

Stomach cramps, bloating, and intestinal gas—oh my! This can be a common concern for a majority of the world's population who lack the enzyme to digest certain foods. Milk and dairy products, for example, cause problems for many people who lack the enzyme required to digest lactose, the main carbohydrate found in milk. This demonstration illustrates the use of a commercial enzyme product called Lactaid™ as an aid in milk digestion.

Materials

Galactose, 5 g
Glucose, 10 g
Lactaid™ ½ tablet
Lactose, 10 g
Yeast, active dry, 12 g

Concepts

- Enzyme
- Disaccharide
- Monosaccharide

Procedure

1. Prepare a warm water bath (35–40 °C) for use in the demonstration—a clear glass baking pan with hot tap water will work nicely. The water bath is needed to allow the dramatic balloon expansion to occur within a typical 50-minute class period.

Balloons, 4
Erlenmeyer flasks, 125-mL, 4
Mortar and pestle
Water bath, 35–40 °C

not milk?



2. Weigh out the dry ingredients prior to the demonstration, and grind ½ tablet of Lactaid™ in a mortar with a pestle.
3. Review the diagram of the demonstration setup shown in Figure 1 on page 4.
4. Clearly label each flask as shown in Figure 1.

Continued on page 4

Chemical Inventory Benefits

Practical Steps to Improve Safety

Do you know what is on your chemical shelves? One of the most practical steps any school science department can take to improve safety is to create and maintain an annual inventory of laboratory chemicals. The chemical inventory works hand-in-hand with Safety Data Sheets and labels to fulfill requirements of the Hazard Communication Standard and the Laboratory Standard.

Chemical Inventory Regulations

Federal and state occupational health and safety regulations require schools to maintain an accurate and up-to-date inventory of all chemicals that may present a physical or health hazard. This require-

ment protects the safety of teachers and staff by ensuring safe chemical management and providing best practices for the storage, handling, and use of chemicals. The inventory list of hazardous chemicals serves as the focal point for and thus integrates all provisions of your school's hazard communication program or Chemical Hygiene Plan. These provisions include updated GHS Safety Data Sheet and labeling requirements, as well as information and training that are needed to identify hazards and prevent exposure to hazardous chemicals. The chemical inventory may also be required

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includes grant title description requirements amount application deadline contact information phone fax and email web address sponsor name and address and samples of awarded grants when available Printed in two volumes each with extensive indexes subject program type and geographic to help you to identify the right program quickly **Science on a Mission** Naomi Oreskes, 2021-04-19 A vivid portrait of how Naval oversight shaped American oceanography revealing what difference it makes who pays for science What difference does it make who pays for science Some might say none If scientists seek to discover fundamental truths about the world and they do so in an objective manner using well established methods then how could it matter who's footing the bill History however suggests otherwise In science as elsewhere money is power Tracing the recent history of oceanography Naomi Oreskes discloses dramatic changes in American ocean science since the Cold War uncovering how and why it changed Much of it has to do with who pays After World War II the US military turned to a new uncharted theater of warfare the deep sea The earth sciences particularly physical oceanography and marine geophysics became essential to the US Navy which poured unprecedented money and logistical support into their study Science on a Mission brings to light how this influx of military funding was both enabling and constricting it resulted in the creation of important domains of knowledge but also significant lasting and consequential domains of ignorance As Oreskes delves into the role of patronage in the history of science what emerges is a vivid portrait of how naval oversight transformed what we know about the sea It is a detailed sweeping history that illuminates the ways funding shapes the subject scope and tenor of scientific work and it raises profound questions about the purpose and character of American science What difference does it make who pays The short answer is a lot History of Humanity UNESCO, 2008-12-31 This is the seventh and final volume in this comprehensive guide to the history of world cultures throughout historical times

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education Guided play a solution to the play versus learning dichotomy Adolescent bullying in schools an evolutionary perspective Fairness what it isn't what it is and what it might be for Adapting evolution education to a warming climate of teaching and learning The effects of an evolution informed school environment on student performance and wellbeing Evolutionary Perspectives on Child Development and Education will interest researchers and graduate students working in diverse areas such as evolutionary psychology cultural anthropology human ecology developmental psychology and educational psychology Researchers in applied developmental science and early education will also find it useful

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