

Enzyme Lab Report

Data

Type of Solution	Predictions: Positive or Negative Glucose Reading	Initial Glucose Reading	Final Glucose Reading
Test Tube A: milk and enzyme solution	+	0 mg/Dl	300 mg/Dl
Test Tube B: milk and water	-	0 mg/Dl	0 mg/Dl
Test Tube C: milk and denatured enzyme solution	-	0 mg/Dl	0 mg/Dl
Test Tube D: sucrose solution and enzyme solution	+	0 mg/Dl	300 mg/Dl*
Test Tube E: sucrose solution and water	+	0 mg/Dl	0 mg/Dl

*Deviated from expected results, which should have been 0 mg/Dl (flaw explained in conclusion).

Conclusion

The disaccharides lactose and sucrose will naturally dissociate into glucose and galactose, and glucose and fructose, respectively, when water is introduced. These reactions, however, will take place over a rather long period of time without the presence of an enzyme to catalyze said reactions. This lab investigated whether the enzyme lactase works specifically with lactose or can also catalyze reactions with sucrose to produce glucose. From the data it can be clearly concluded that lactase is an enzyme that works specifically with lactose, and does not catalyze reactions involving sucrose. It is important to note that this conclusion does not mean that the reactions involving sucrose solution did not happen, but rather that they were not catalyzed and therefore did not happen rapidly enough to be observed within two minutes.

The initial proof that the enzyme solution, lactase, works specifically for lactose is apparent in the discrepancies between Test Tubes A, B, and C. In Test Tube A, the lactase solution was clearly capable of catalyzing the lactose in milk, evident from the 300 mg/Dl final glucose reading. In Test Tube B it is clear that the lack of this enzyme means that the lactose does not quickly yield glucose and is therefore not catalyzed. Test Tube C, containing milk and a lactase solution that was boiled for 30 minutes and thus denatured, shows that when the shape of the lactase enzyme is changed, such as when it is exposed to extreme and prolonged heat, it no longer catalyzes the molecule it is intended to catalyze (lactose). This is seen in the reading of 0 mg/Dl as the final glucose reading. The denaturation that the lactase in Test Tube C underwent changed the shape of the active site to which lactose binds, rendering the enzyme useless. This is also explained in the diagram on the next page.

Knowing that the shape of the enzyme's active site is essential to its ability to work for a given molecule, it would be expected that a sucrose solution would not be catalyzed by lactase, an enzyme proven to catalyze reactions involving lactose. (This is also illustrated in the diagram). This lab's data however, is flawed in that it indicates otherwise, as evidently a positive glucose reading resulted from the reaction between a sucrose solution and lactase. There are several possible reasons that the data was flawed

Enzyme Activity Lab Report Results

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Hygienic Laboratory bulletin. no. 84, 1912
,1912 *Government Reports Announcements & Index* ,1988 **Lab World** ,1979 Annual Report of the Secretary of the State Board of Agriculture ... and ... Annual Report of the Experimental Station ... Michigan. State Department of Agriculture,1906 *Life in the Lab* Humphrey,1997-11 **Critical Care Transport** American Academy of Orthopaedic Surgeons (AAOS),,American College of Emergency Physicians (ACEP),,UMBC,2017-03-20 Welcome to the gold standard in critical care transport training Published in conjunction with the American Academy of Orthopaedic Surgeons AAOS and the American College of Emergency Physicians ACEP and endorsed by the University of Maryland Baltimore County UMBC and the International Association of Flight and Critical Care Providers IAFCCP Critical Care Transport Second Edition offers cutting edge content relevant to any health care provider training in critical care transport Authored by leading critical care professionals from across the country Critical Care Transport Second Edition contains state of the art information on ground and flight transport that aligns with the latest evidence based medicine and practices Content includes information specific to prehospital critical care transport such as flight physiology lab analysis hemodynamic monitoring and specialized devices such as the intra aortic balloon pump Standard topics such as airway management tra

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the ... Figurative Language In Truman Capote's In Cold Blood One example of imagery is used in line 5 "I'm stone. I'm flesh." The narrator is using metaphoric and literal imagery describing his body. The reader can ... Metaphor, Make-believe and Misleading Information in ... Sep 10, 2022 — Packed with metaphor, language play and allegory - such as that found in the noted tomcat extract above - In Cold Blood can surely only ever be ... Rhetorical Strategies Mar 7, 2011 — However, one of the most important rhetorical devices written in the novel is in the form of a metaphor: "He and Dick were 'running a race ... In Cold Blood - LitDevices.com Jul 1, 2019 — The author uses vivid imagery to create a sense of place and atmosphere, such as when he describes the Clutter home as "a home with absolutely ... Language Devices In Truman Capote's In Cold Blood Truman Capote uses variety of language devices to vividly develop Perry Smith in his novel In Cold Blood. These language devices include, diction, similes ... Amahl and the Night Visitors (Vocal Score) This vocal score is a new and revised edition of the well-known opera that made television history on Christmas Eve, 1951. Instrumentation. Piano; Vocal ... Menotti AMAHL AND THE NIGHT VISITORS Sep 20, 2013 — Opera and Music Theatre; score; G. Schirmer; musicsalesclassical.com; 30678. ... Menotti AMAHL AND THE NIGHT VISITORS. Page 1. ScoresOnDemand http ... Amahl and the Night Visitors: Vocal Score ... Book overview. (Vocal Score). This vocal score is a new and revised edition of the well-known opera that made television history on Christmas Eve, 1951. Amahl and The Night Visitors | PDF Aug 25, 2021 — ... VISITORS Gera m Que Ae Words and Music by GIAN-CARLO MENOTTI G. ... Orchestral materials and an arrangement of the orchestral score for two pianos ... Amahl and the Night Visitors (Vocal Score) Price: \$27.00 ... This vocal score is a new and revised edition of the well-known opera that made television history on Christmas Eve, 1951. Details. Publisher: G ... Gian Carlo Menotti - Amahl & the Night Visitors Vocal Score Sheet Music - £31.99 - Menotti;s enchanting opera of Amahl and the Night Visitors is presented here in a clearly printed vocal and piano score. Amahl and the Night Visitors Opera in One Act Words ... Amahl and the Night Visitors Opera in One Act Words and Music by Gian-Carlo Menotti. [Piano-vocal score] New York/London: G. Schirmer [PN 42736], [1952]. Amahl And The Night Visitors - Vocal Score by Gian Carlo ... This vocal score is a new and revised edition of the well-known opera that made television history on Christmas Eve, 1951. Amahl and the Night Visitors Features: This vocal score is a new and revised edition of the well-known opera that made television history on Christmas Eve, 1951. Table of Contents: ... Amahl And The Night Visitors - Vocal Score This vocal score is a new and revised edition of the well-known opera that made television history on Christmas Eve, 1951. Song List:. STAR CLASSROOM - HOW TO FIND COMMENT CODES Stars report cards comments 2023-2024 STARS Classroom Report Card Comments w/4 digit codes. Created by. Satterfield-Brown Technology. This Common Core/NGLS aligned ... Report Card Comment Codes Report Card Comment Codes. Files: Report Card Comments.pdf. Comment codes Comment codes · 2023-2024 STARS Classroom Report Card Comments w/4 digit codes · Grade 3 Progress Report Card Comments - TERM 1 - Editable! STARS Classroom - nycenet.edu No information is available for this page. Nyc doe stars comment codes Stars classroom comment codes. This Common Core/NGLS aligned resource is

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