

Lab Report

Annotated Lab Report

Manipulation of Enzymes and Enzymatic Processes

Conclusion

Conclusion

In conclusion, the purpose of this experiment was to conduct two experiments in order to examine how enzyme concentration affects the rate of a reaction and also how reactant and product concentration can affect the direction of an enzymatic reaction. These goals were accomplished by conducting the salivary amylase experiment and phosphorylase experiments separately.

The experiments with salivary amylase revealed that increasing the concentration of an enzyme decreased the time needed for the reaction to reach its end point. This understanding of how enzymes affect reactions in organic material, specifically how salivary amylase helps break down starch, is useful for better understanding of and treatment for a variety of conditions. Salivary amylase is more associated with the breakdown of starch to carbohydrates, making it a component of study for diabetes and obesity research. Additionally, salivary amylase also binds to bacteria in the mouth and on teeth, which has implications for dentistry, like cavity plaque and the development of cavities in the teeth (Scannapieco, Torres, & Levine, 1999).

The experiments with phosphorylase also showed how further research has to progress has the potential to enhance metabolic research. The experiments confirmed that the direction of an enzymatic reaction depends on the concentration of the reactants and products (Starr, Evans, & Smith, 2011). A high concentration of reactants drives the reaction forward; a high concentration of products drives the reverse reaction (Starr, Evans & Smith, 2011). Additional factors such as temperature and pH level also impact whether or not a reaction occurs. The ability of phosphorylase to both degrade and synthesize starch has been a source of research for the development of a variety of treatments such as treatments as phosphorylase inhibitors for type 2 diabetes, and treatments for fetal lung maturation (Rennett, Rennett, Sneyd, & Levine, 1999).

1

First paragraph summarizes the goals of the lab.

2

A summary of the outcomes of each experiment are given.

3

Writer notes the larger implications of the new knowledge.

4

In-text citations appear throughout the report, especially in the introduction, discussion, and conclusion sections.

5

A summary of the outcomes of each experiment are given.

6

Writer notes the larger implications of the new knowledge.

Parts Of A Lab Report

National Science Teachers Association

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the text 'National Science Teachers Association'.

Parts Of A Lab Report:

How to Write a Lab Report Jerome N. Borowick, 2000 This guide outlines an effective methodology for writing the experimental laboratory report showing how skills that emphasize correct grammar and appropriate style must be adapted to writing reports with a purpose reports that emphasize structure and content to persuade the readers It first covers basic principles then explores each section of a report step by step with sample report sections and critiques The Laboratory Report Writing Process Principles of Clear Lab Report Writing Rules of Practice for Lab Report Writing Graphics The Title Page and Table of Contents The Beginning of the Report The Body of the Report The Ending of the Report A Sample Student Lab Report For anyone who must write lab reports as part of their professional responsibilities Part - Anatomy & Physiology Laboratory Manual - E-Book Kevin T Patton, PhD, 2014-12-02 Effectively master various physiology dissection identification and anatomic explorations in the laboratory setting with the Anatomy Physiology Laboratory Manual 9th Edition This practical full color lab manual contains 55 different A P lab exercises that cover labeling anatomy identification dissection physiological experiments computerized experiments and more The manual also includes safety tips a comprehensive instruction and preparation guide for the laboratory and tear out worksheets for each of the 55 exercises In addition 8 e Lab modules offer authentic 3D lab experiences online for virtual lab instruction 8 interactive eLabs further your laboratory experience in the digital environment Complete list of materials for each exercise offers a thorough checklist for planning and setting up laboratory activities Over 250 illustrations depict proper procedures and common histology slides Step by step guidance for dissection of anatomical models and fresh or preserved specimens with accompanying illustrations helps you become acclimated to the lab environment Physiology experiments centering on functional processes of the human body offer immediate and exciting examples of physiological concepts Easy to evaluate tear out lab reports contain checklists drawing exercises and questions that help you demonstrate your understanding of the labs they have participated in Reader friendly spiral binding allows for hands free viewing in the lab setting Labeling and coloring exercises provide opportunities to identify critical structures examined in the lab and lectures Brief learning aids such as Hints Landmark Characteristics and Safety First are found throughout the manual to help reinforce and apply knowledge of anatomy and function Modern anatomical imaging techniques such as MRIs CTs and ultrasonography are introduced where appropriate Boxed hints and safety tips provide you with special insights on handling specimens using equipment and managing lab activities UPDATED Fresh activities keep the manual current and ensure a strong connection with the new edition of the A P textbook NEW Updated illustrations and design offer a fresh and upbeat look for the full color design and learning objectives NEW Expanded and improved student resources on the Evolve companion website include a new version of the Body Spectrum electronic coloring book Scientific and Technical Aerospace Reports ,1990 *First Day to Final Grade, Third Edition* Anne Curzan, Lisa Damour, 2011-02-04 The third edition of First Day to Final Grade A Graduate Student s Guide to Teaching

is designed to help new graduate student teaching assistants navigate the challenges of teaching undergraduates Both a quick reference tool and a fluid read the book focuses on the how tos of teaching such as setting up a lesson plan running a discussion and grading as well as issues specific to the teaching assistant s unique role as both student and teacher This new edition incorporates newer teaching and learning pedagogy The book has been updated to reflect the role of technology both inside and outside the classroom In addition a new chapter has been added that discusses successfully transitioning from being a teaching assistant to being hired as a full time instructor

Grading for Growth David Clark,Robert Talbert,2023-07-03 Are you satisfied with your current and traditional grading system Does it accurately reflect your students learning and progress Can it be gamed Does it lead to grade grubbing and friction with your students The authors of this book two professors of mathematics with input from colleagues across disciplines and institutions offer readers a fundamentally more effective and authentic approach to grading that they have implemented for over a decade Recognizing that traditional grading penalizes students in the learning process by depriving them of the formative feedback that is fundamental to improvement the authors offer alternative strategies that encourage revision and growth Alternative grading is concerned with students eventual level of understanding This leads to big changes Students take time to review past failures and learn from them Conversations shift from why did I lose a point for this to productive discussions of content and process Alternative grading can be used successfully at any level in any situation and any discipline in classes that range from seminars to large multi section lectures This book offers a comprehensive introduction to alternative grading beginning with a framework and rationale for implementation and evidence of its effectiveness The heart of the book includes detailed examples including variations on Standards Based Grading Specifications Grading and ungrading of how alternative grading practices are used in all kinds of classroom environments disciplines and institutions with a focus on first hand accounts by faculty who share their practices and experience The book includes a workbook chapter that takes readers through a step by step process for building a prototype of their own alternatively graded class and ends with concrete practical time tested advice for new practitioners The underlying principles of alternative grading involve Evaluating student work using clearly defined and context appropriate content standards Giving students helpful actionable feedback Summarizing the feedback with marks that indicate progress rather than arbitrary numbers Allowing students to revise without penalty using the feedback they receive until the standards are met or exceeded This book is intended for faculty interested in exploring alternative forms of learning assessment as well as those currently using alternative grading systems who are looking for ideas and options to refine practice

Teaching Undergraduate Science Linda C. Hodges,2025-09-25 Teaching Undergraduate Science A Guide to Overcoming Obstacles to Student Learning offers college and university instructors evidence based strategies to help students learn those specific skills and habits of mind necessary for succeeding in STEM fields Updated and expanded from the first edition this text elaborates on critical factors in cultivating student success

including how to engender a sense of belonging and agency in STEM engage students in their learning and foster deliberate practice Hodges provides frank guidance on the relative effort and outcomes for each strategy allowing instructors to choose techniques best suited to their aims and contexts While focusing primarily on face to face classes this resource also addresses how to work between online resources and physical spaces Hodges years of experience working as and with STEM faculty provides a personal connection to the research shared producing an accessible practical and enjoyable read

Subject Index to Unclassified ASTIA Documents Defense Documentation Center (U.S.),1960 **Technical Reports**
United States. Air Force Personnel and Training Research Center,1953 Terminology, Ontology and their Implementations
Peter L. Elkin,2023-07-19 This revised new edition containing numerous new and heavily updated chapters provides readers with the essential information needed to understand the central topics of terminology in healthcare the understanding of which is an asset to be leveraged in care and research Twenty five years ago the notion that terminology should be concept based was all but unknown in healthcare now almost all important terminologies are at least partly concept based With no general model of what a terminology was or should be there were no tools to support terminology development and maintenance Steady progress since then has improved both terminology content and the technology and processes used to sustain that content This new edition uses real world examples from the health sector to delineate the principal issues and solutions for the field of data representation It includes a history of terminologies and in particular their use in healthcare including inter enterprise clinical and research data aggregation Terminology Ontology and their Implementations covers the basis authoring and use of ontologies and reference terminologies including the formalisms needed to use them safely The editor and his team of carefully chosen contributors exhaustively reviews the field of concept based indexing and provides readers with an understanding of natural language processing and its application to health terminologies The book discusses terminology services and the architecture for terminological servers and consequently serves as the basis for study for all students of health informatics *Tried and True* National Science Teachers Association,2010 A compilation of popular Tried and True columns originally published in Science Scope this new book is filled with teachers best classroom activities time tested tweaked and engaging These ageless activities will fit easily into your middle school curriculum and serve as go to resources when you need a tried and true lesson for tomorrow from publisher description

Parts Of A Lab Report Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Parts Of A Lab Report**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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