

## Lab 9: Quantitation of Proteins Using the BCA Protein Assay

### Relevant Readings:

- Appendix A, page 141 of this manual
- Appendix B, page 147 of this manual
- Appendix C, page 149 of this manual
- Appendix E, page 159 of this manual
- Appendix F, page 163 of this manual

### Exercise Objectives — Upon successful completion of this exercise you should be able to:

1. Give 2 examples of protein assays.
2. Name the protein assay used in this course.
3. State under what circumstances the BCA assay cannot be used.
4. State the number of steps involved in the BCA assay.
5. Describe or illustrate the reaction that occurs in the first step of the BCA assay.
6. List the factors that determine the rate of color development in the BCA assay.
7. Give two reasons to use the BCA assay.
8. Explain why BCA assay is not a true end-point method.
9. Explain the relationship between color intensity and concentration in the BCA assay.
10. Calculate the amount of protein in each fraction.
11. Calculate the total percent of protein in each fraction.

### 1. Introduction

There are a number of different protein assays commercially available. During a protein assay a compound is added to the sample that will change color in the presence of protein, the higher the concentration of protein in the sample, the greater the color change. The two types of protein assay most frequently used in labs are ones based on protein binding Coomassie blue dye (Bradford assay) and assays based on protein chelation with copper (Lowry and BCA assays). Choice of protein assay depends on ease of use and the compatibility of the assay with compounds present in the protein extract. While all commercially available protein assays are relatively quick and easy to perform in the lab, you will be using the BCA protein assay because it is not affected by the presence of detergents in protein samples. The BCA assay cannot be used if reducing agents (ex. mercaptoethanol) are present. Because your samples do not contain reducing agents this is not a problem.

The BCA assay consists of two steps. In the first step the protein reacts with  $\text{Cu}^{2+}$  under alkaline pH to produce  $\text{Cu}^{+}$ , producing a blue-colored product. The amount of product

# Bca Lab Manual

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**MySQL Lab Manual** Manish Soni, 2024-11-13 This book MySQL Lab Manual is your companion on a journey through the intricate and dynamic world of MySQL an open source relational database management system that has captivated the hearts of developers database administrators and businesses worldwide In a data driven era where information is the lifeblood of organizations mastering a robust and versatile database system like MySQL is of paramount importance This book is tailored to meet the diverse needs of readers whether you re taking your first steps into the realm of databases or you re an experienced database professional looking to deepen your MySQL expertise As you navigate through these pages you ll find the collective wisdom of experienced database professionals developers and MySQL enthusiasts who have contributed to this comprehensive resource We d like to express our gratitude to the MySQL community whose passion and dedication have played an instrumental role in shaping this book We d also like to thank our families friends and colleagues for their unwavering support throughout this endeavour We believe that this book will be a valuable resource on your journey to becoming a MySQL master Whether you re a student a professional or an enthusiast we hope this book equips you with the knowledge and skills you need to harness the full potential of MySQL

*Food Analysis Laboratory Manual* S. Suzanne Nielsen, 2010-03-20 This second edition laboratory manual was written to accompany Food Analysis Fourth Edition ISBN 978 1 4419 1477 4 by the same author The 21 laboratory exercises in the manual cover 20 of the 32 chapters in the textbook Many of the laboratory exercises have multiple sections to cover several methods of analysis for a particular food component of characteristic Most of the laboratory exercises include the following introduction reading assignment objective principle of method chemicals reagents precautions and waste disposal supplies equipment procedure data and calculations questions and references This laboratory manual is ideal for the laboratory portion of undergraduate courses in food analysis

Core Laboratory Manual of Physics for Class XI Anil Sharma, Prashant Sharma, Goyal Brothers Prakashan, 2020-04-16 Goyal Brothers Prakashan *Advanced Turfgrass Management Lab Manual* Bert McCarty, Philip Brown, 2021-12-15 Turfgrasses are used for many purposes such as golf courses sports fields and a variety of commercial and homeowner settings Many other uses include other recreational activities functional uses such as roadsides and airports and for a variety of erosion control activities Successful turfgrass management does not occur by chance This book provides the in depth knowledge and understanding of the science needed to accomplish this Units chapters are arranged so as to build upon previous ones to help improve the reader s understanding of the science and art of successful turfgrass management

**ICSE-Lab Manual**  
**Physics-TB-10** Dr M K Gandhi, ICSE Lab Manual Physics TB 10 *Lab Manual* Gregory L. Moss, 1991 **Invasive Cardiology: A Manual for Cath Lab Personnel** Sandy Watson, Kenneth A . Gorski, 2010-05-06 written specifically by and for nurses and technicians Topics include ECG interpretation intracardiac pressure measurement radiography intracoronary Doppler intravascular ultrasound duties of technical staff angiography and cardiac catheterization PTCA stents atherectomy

laser nursing care valvuloplasty and balloon pericardiotomy electrophysiology cardiac pacing endomyocardial biopsy foreign body retrieval pediatric interventional cardiology cardiac pharmacology and cath lab emergencies Publisher **INSPIRING ICONS** Global Triumph Foundation, Success always looks ahead of the silly excuses and puts itself forward than the created misconceptions Success is the result of key determination and concentration while moving in the path of workings This book presents 40 powerful stories of first generation entrepreneurs renowned personalities who have built everlasting potential towards reaching the goal of success The Start ups and venturing initiatives fostered wave of innovation to establish them during COVID 19 pandemic period They have dedicated their lives to serve the nation transforming lives of many and contributing to the development of Indian economy Some renowned Leaders Entrepreneurs have made a remarkable impact on society with their innovations and vision Their journey was full of challenges Steve Jobs is one such iconic figure known for the establishment of Apple company Bill Gates a great entrepreneur who established Microsoft the biggest software company Albert Einstein is a well known scientist and extraordinary genius personality known by almost all of us all over the world due to his great inventions and contributions towards science Abraham Lincoln a great personality and also the ex president of the USA also suffered regularly from massive failures year after the year So success is a failure in progress and someone who has never failed cannot truly be a successful person The book Inspiring Icons has showcased how young people have faced unprecedented difficulties and uncharted paths but inspite of all odds they are rising up to make a difference Entrepreneurs are the backbone of wealth creation with a focus on focus on re think re learn and unlearn to make the world a better place to live The book determined how people have arrived at their position of leadership keeping it and thriving in to build credibility along the way The book has a collection of stories presenting their struggle and success in one cup with a call for readers that Success Never Sleeps The author compelled to put light on their entrepreneurial experience networking digital savvy initiatives Leveraging of social media and business trends Their passion and consistency to drive business revenue have played a pivotal role in this new age building strong relationships for one s life ideas and even business

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**Basic Electrical Engineering (with Lab Manual)** S.K. Sahdev,2021-01-01 This textbook Basic Electrical Engineering is based on the latest syllabus of the Universities AICTE and Educational Institutes In this edition some material of the book has been rewritten to make the presentation easily comprehensible More illustrative examples mainly from IAS IES and GATE and other competitive examinations have been added

*Kitchen Science Fractals: A Lab Manual For Fractal Geometry* Michael Frame,Nial Neger,2021-10-04 This book provides a collection of 44 simple computer and physical laboratory experiments including some for an artist s studio and some for a kitchen that illustrate the concepts of fractal geometry In addition to standard topics iterated function systems IFS fractal dimension computation the Mandelbrot set we explore data analysis by driven IFS construction of four dimensional fractals basic multifractals synchronization of chaotic processes fractal finger paints cooking fractals videofeedback and fractal networks of resistors and oscillators

A Computer Laboratory Referral for Diploma and Engineering Students T.R. Jagedeesh,2001-02 This is a hands on reference that will help studnts to attain fluency in Word Procssing electronic accounting in Spreadsheet and programming with C in the shortest possible time It includes all the fundamental computing processes concisely to specifically address the needs of engineering and diploma students in the early semesters

Mathematics Catalog 2005 Neil Thomson,2004-10

Four Decades of Distance Education in India Suresh Garg,2006 The evolution of distance education in India in forms of dual mode single mode and consortia has been phenomenal The system today is one of the largest distance education networks in the world comprising dual mode university distance education institutes single mode open universities dual mode secondary education single mode open schools distance education council consortium and many private and semi government providers of education and training The four generations of distance education have been implemented in a variety of forms and models and the system exhibits adoption of innovative practices in course design development delivery evaluation media networking and planning and management which have proved effective in addressing the issues of access and equity economy quality and reform in the country and which have been adapted emulated by a host of such systems in the developing world It is therefore imperative at this stage to reflect on the developments of above four decades of distance education in this country and map its future expansion Each chapter in the volume reflects on the concerned theme covering the distance education system in the country traces the limitations and adoption of innovative strategies to address the issues and introspect on its future possibilities

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the concentrations of all species at equilibrium check your final answers with a q calculation let x be the number of mol l of h  
2 or i 2 that is lost to reach equilibrium h 2 g i 2 g 2 hi g

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web as a result of the reaction the equilibrium concentration of nh3 g became 0 540 m what is the value of the equilibrium  
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therefore we can describe the relationship between  $\Delta G$  0 and k p for gases as follows begin align 0  $\Delta G$  0  $rt \ln k p$  label 18 36a  
4pt  $\Delta G$  0  $rt \ln k p$  label 18 36b end align

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containers in model 1 could be made from that would ensure that they were nonflexible 3 in model 1 the length of the arrows  
represents the average kinetic energy of the molecules in that sample which gas variable p

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2 g 2hi g at 425oc an equilibrium mixture has the following concentrations hi 1 01 x 10 2 mol l h 2 1 25 x 10 3 mol l i 2 1 49 x  
10 3 mol l

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