

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 Cu^{2+} under alkaline pH to produce Cu^{+} , producing a blue-colored product. The amount of product

Bca Lab Manual

Sandy Watson, Kenneth A . Gorski



Bca Lab Manual:

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

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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

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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

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A Computer Laboratory Referral for Diploma and Engineering Students T.R. Jagadeesh,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

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