

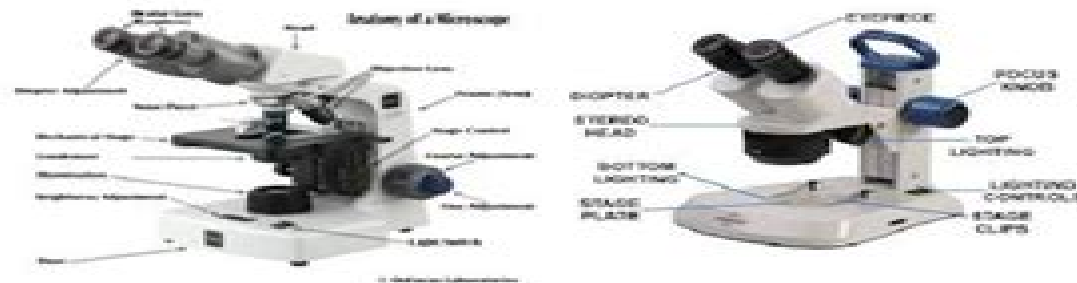
BIO 108 Lab Exam Review

1. Define aseptic technique. How do you prepare an aseptic station and maintain aseptic technique?

Aseptic technique refers to a set of routine procedures done to prevent sterile solutions and cultures from becoming contaminated by unwanted microorganisms in the laboratory.

- decontaminate your lab bench
- safely organize your workspace
- properly adjust your Bunsen burner
- properly use an incinerator
- sterilize your inoculating tools
- aseptically transfer organisms from broth/plate cultures using procedures
- handle biohazard spills and dispose of biohazard materials
- do not put your head right over the things you are working on

2. Identify the parts of a compound and dissection microscope.



3. How do you calculate total magnification?

Ocular power $\times$ object power. Ocular power is 10x

4. How do you calculate the actual size of an object? How do you complete the magnification of a drawing?

[illegible]

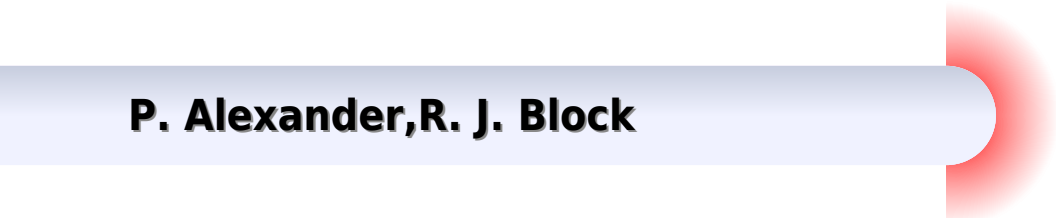
5. How do you find the resolution of each objective lens?

Objective lens Magnification	Ocular lens Magnification	Total magnification	Field of Diameter	Numerical Aperture (N.A.) <i>Fixed on Objective lens</i>	Resolution (R)	Calibration factor Ocular Micrometer Units (per division)
40X	10X	400X	3.6mm	0.10	3.6µm	1 unit = 30.0µm
100x	10X	1000X	1.8mm	0.25	1.0 µm	1 unit = 10.2µm
400x	10X	4000X	0.45mm	0.65	0.4 µm	1 unit = 2.5µm
1000x	10X	10000X	0.18mm	1.25	0.2 µm	1 unit = 1.0µm

$$R = \frac{0.61 \lambda}{NA} \quad \text{where } \lambda = \text{wavelength of light (500 nm or } 0.5 \mu\text{m)}$$

Bio 108 Lab Manual

P. Alexander, R. J. Block



Bio 108 Lab Manual:

Introductory Biology, Bio 108, 2014 Laboratory Manual for Biotechnology and Laboratory Science Lisa A. Seidman, Mary Ellen Kraus, Diana Lietzke Brandner, Jeanette Mowery, 2022-12-23 Provides the basic laboratory skills and knowledge to pursue a career in biotechnology Written by four biotechnology instructors with over 20 years of teaching experience it incorporates instruction exercises and laboratory activities that the authors have been using and perfecting for years These exercises and activities help students understand the fundamentals of working in a biotechnology laboratory Building skills through an organized and systematic presentation of materials procedures and tasks the manual explores overarching themes that relate to all biotechnology workplaces including forensic clinical quality control environmental and other testing laboratories Features Provides clear instructions and step by step exercises to make learning the material easier for students There are Lab Notes for Instructors in the Support Material see tab below Emphasizes fundamental laboratory skills that prepare students for the industry Builds students skills through an organized and systematic presentation of materials procedures and tasks Updates reflect recent innovations and regulatory requirements to ensure students stay up to date Supplies skills suitable for careers in forensic clinical quality control environmental and other testing laboratories Index-catalogue of the Library of the Surgeon-general's Office, United States Army National Library of Medicine (U.S.), 1937 Pure and Applied Science Books, 1876-1982, 1982 Over 220 000 entries representing some 56 000 Library of Congress subject headings Covers all disciplines of science and technology e g engineering agriculture and domestic arts Also contains at least 5000 titles published before 1876 Has many applications in libraries information centers and other organizations concerned with scientific and technological literature Subject index contains main listing of entries Each entry gives cataloging as prepared by the Library of Congress Author title indexes **College Science Improvement Programs; COSIP A & B Report** National Science Foundation (U.S.). Office of Experimental Programs, 1974 *American Scientist*, 1945 **Index-catalogue of the Library of the Surgeon General's Office, United States Army (Army Medical Library)**. Army Medical Library (U.S.), National Library of Medicine (U.S.), 1945 Collection of incunabula and early medical prints in the library of the Surgeon general s office U S Army Ser 3 v 10 p 1415 1436 **Catalogue** Capital University, 1953 Index-catalogue of the Library of the Surgeon-General's Office, United States Army (Army Medical Library) National Library of Medicine (U.S.), Army Medical Library (U.S.), 1937 The Separation and Isolation of Proteins P. Alexander, R. J. Block, 2014-05-15 A Laboratory Manual of Analytical Methods of Protein Chemistry Including Polypeptides Volume 1 The Separation and Isolation of Proteins deals with the techniques used in the separation and isolation of proteins including fractionation and characterization by dialysis multi membrane electrodecentation and zonal density gradient electrophoresis The fractionation of proteins by adsorption and ion exchange is also described This book is comprised of seven chapters and begins with a discussion on procedures for the separation of proteins paying particular attention to the

liberation of proteins from cellular material removal of lipids from lipoproteins and denaturation fractionation and purification of proteins The next chapter focuses on the isolation of biologically active proteins such as cytochrome bacterial amylases and bacterial proteinases The reader is methodically introduced to fractionation of proteins by adsorption and ion exchange fractionation and characterization by dialysis multi membrane electrodecentation and continuous and discontinuous partition The final chapter explains how zonal density gradient electrophoresis works as a separation method for natural mixtures of proteins their degradation products and other substances carrying electric charges in solution or suspension This volume will be of interest to chemists working with proteins

The book delves into Bio 108 Lab Manual. Bio 108 Lab Manual is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Bio 108 Lab Manual, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Bio 108 Lab Manual
- Chapter 2: Essential Elements of Bio 108 Lab Manual
- Chapter 3: Bio 108 Lab Manual in Everyday Life
- Chapter 4: Bio 108 Lab Manual in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Bio 108 Lab Manual. This chapter will explore what Bio 108 Lab Manual is, why Bio 108 Lab Manual is vital, and how to effectively learn about Bio 108 Lab Manual.
3. In chapter 2, the author will delve into the foundational concepts of Bio 108 Lab Manual. This chapter will elucidate the essential principles that need to be understood to grasp Bio 108 Lab Manual in its entirety.
4. In chapter 3, the author will examine the practical applications of Bio 108 Lab Manual in daily life. The third chapter will showcase real-world examples of how Bio 108 Lab Manual can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Bio 108 Lab Manual in specific contexts. This chapter will explore how Bio 108 Lab Manual is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Bio 108 Lab Manual. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Bio 108 Lab Manual.

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