

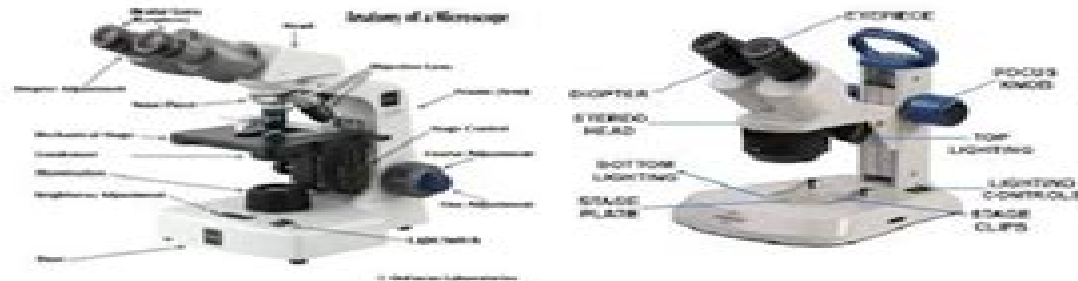
## BIO 108 Lab Exam Review

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 x 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?

Actual size:  
 (1) actual measurement (with micrometer) or (2) objective field of view  
 Drawing size: 25mm (100 divisions) = 1000 μm (1mm) → Conversion factor: 1000 μm / 100 divisions = 10 μm/division  
 Actual Magnification:  
 Magnification = Drawing size / Actual size = 1000 μm / 10 μm = 100X  
 Magnification of object:  
 Magnification of object = Total magnification / Magnification of drawing = 1000X / 10 = 100X  
 Size of drawing = 10 μm = 100 μm  
 Size of object = 1000 μm = 1000 μm



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.)<br><i>Focus on objective lens</i> | Resolution (R) | Calibration factor<br>Ocular Micrometer Units (μm/ division) |
|------------------------------|---------------------------|---------------------|-------------------|-------------------------------------------------------------|----------------|--------------------------------------------------------------|
| 40X                          | 10X                       | 400X                | 3.6mm             | 0.10                                                        | 3.6 μm         | 1 ocular = 30.8 μm                                           |
| 100X                         | 10X                       | 1000X               | 1.8mm             | 0.25                                                        | 1.0 μm         | 1 ocular = 10.2 μm                                           |
| 400X                         | 10X                       | 4000X               | 0.45mm            | 0.65                                                        | 0.4 μm         | 1 ocular = 2.5 μm                                            |
| 1000X                        | 10X                       | 10000X              | 0.18mm            | 1.25                                                        | 0.2 μm         | 1 ocular = 1.0 μm                                            |

$$R = \frac{0.61 \lambda}{N.A.} \quad \text{Where } \lambda = \text{wavelengths of light (500 nm or } 0.5 \mu\text{m)}$$

# Bio 108 Lab Manual

**Clifford Lane**



## 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 electrodecantation 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

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