



Basic Laboratory Methods for Biotechnology (2nd Edition)

By Seidman, Lisa A.; Moore, Cynthia J.

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Summary: I. INTRODUCTION TO THE BIOTECHNOLOGY WORK PLACE 1. The Modern Biotechnology Industry: A Broad Overview 2. The Business of Biotechnology: The Transformation of Knowledge into Products 3. Pharmaceutical/Biopharmaceutical Products II. PRODUCT QUALITY AND BIOTECHNOLOGY 4.

Introduction to Product Quality Systems 5. Biotechnology and the Regulation of Food and Medical Products 6. Documentation, the Foundation of Quality 7. Quality Systems in the Production Facility 8. Quality Systems in the Laboratory III. SAFETY IN THE LABORATORY 9. Introduction to a Safe Workplace 10. Working Safely in the Laboratory: General Considerations and Physical Hazards 11. Working Safely with Chemicals 12. Working Safely with Biological Materials IV. MATH IN THE BIOTECHNOLOGY LABORATORY: AN OVERVIEW 13. Basic Math Techniques 14. Proportional Relationships 15. Relationships and Graphing 16. Descriptions of Data (Descriptive Statistics) V. LABORATORY MEASUREMENTS 17. Introduction to Quality Laboratory Measurements, Tests and Assays 18. Introduction to Instrumental Methods and Electricity 19. The Measurement of Weight 20. The Measurement of Volume 21. The Measurement of Temperature 22. The Measurement of pH, Selected Ions and Conductivity 23. Measurements Involving Light A. Basic Principles and Instrumentation VI. QUALITY ASSAYS AND...



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