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Exercise 10A Colony HybridizationAppendix 2. Buffer Solutions; Appendix 3. Preparation of Buffers and Solutions; Appendix 4. Properties of Some Common Concentrated Acids and Bases; Appendix 5. Use of Micropipettors; Appendix 6. Safe Handling of Microorganisms; Appendix 7. List of Cultures; Appendix 8. Storage of Cultures and DNA; Appendix 9. Sterilization Methods; Appendix 10. Preparation of Stock Solutions for Culture Media; Appendix 11. Growth in Liquid Medium; Appendix 12. Determination of Viable Cells; Appendix 13. Determination of Cell Mass; Appendix 14. Determination of Cell Number
Appendix 15. Nomenclature of StrainsAppendix 16. Glassware and Plasticware; Appendix 17. Preparation of Tris and EDTA; Appendix 18. Basic Rules for Handling Enzymes; Appendix 19. Effects of Common Contaminants on Protein Assays; Appendix 20. Manufacturers' and Distributors' Addresses; Appendix 21. Surfing the Bionet: World Wide Web Addresses; Glossary; Index

Sommario/riassunto

The objectives of this Second Edition of Biotechnology: A Laboratory Course remain unchanged: to create a text that consists of a series of laboratory exercises that integrate molecular biology with protein biochemistry techniques while providing a continuum of experiments. The course begins with basic techniques and culminates in the utilization of previously acquired technical experience and experimental material. Two organisms, Sacchaomyces cerevisiae and Escherichia coli, a single plasmid, and a single enzyme are the experimental material, yet the procedures and