

Molecular Biology Practical Manual

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molecular weight. Ex. To make up 100 ml of a 5M NaCl solution = 58.456 (mw of NaCl) g/mol x 5 moles/liter x 0.1 liter = 29.29 g in 100 ml of solution 2. Percent solutions. Percentage (w/v) = weight (g) in 100 ml of solution; Percentage (v/v) = volume (ml) in 100 ml of solution. Ex. To make a 0.7% solution of agarose in TBE buffer, weight 0.7 of agarose

MOLECULAR BIOLOGY LAB MANUAL The Beginning

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Practical Manual Molecular Biology BIO302

Beginning Molecular Biology Laboratory Manual. CHAPTER 1: General Laboratory Methods. CHAPTER 2: Instructions for Notebook Keeping. CHAPTER 3: Vector NTI User's Guide. CHAPTER 4: Molecular Biology Methods. Preparation of genomic DNA from bacteria; PCR amplification of DNA; Restriction enzyme digestion of DNA; Phenol/chloroform extraction of DNA

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Glass and plastic ware used for molecular biology must be scrupulously clean. Dirty test tubes, bacterial contamination and traces of detergent can inhibit reactions or degrade nucleic acid. Glassware should be rinsed with distilled water and autoclaved or baked at 150°C for 1 hour.

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Cell Biology & Genetics Laboratory Manual Experiment No: 1 Principle and utility of microscopy The function of any microscope is to enhance resolution. The microscope is used to create an enlarged view of an object such that we can observe details not otherwise possible with the human eye. Because of

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CELL BIOLOGY AND GENETICS LAB MANUAL

Molecular Biology and as a reference material. This lecture note is specifically designed for medical laboratory technologists, and includes only those areas of molecular cell biology and Applied Genetics relevant to degree-level understanding of modern laboratory technology. Since genetics is prerequisite course to

MOLECULAR BIOLOGY AND APPLIED GENETICS

The first edition of this multiauthor lab practical book appeared in 1975, and the fact that it is now in its fifth edition attests to its usefulness to the biochemistry teaching community. Laboratory work has of course moved on a great deal since 1975 (can you remember what sorts of techniques you were using in 1975?) although many of the basic principles, if not all of them, remain the same.

Principles and techniques of practical biochemistry (5th ...

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