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molecular weight. Ex. To make up 100 ml of a 5M NaCl solution = $58.456 \text{ (mw of NaCl) g/mol} \times 5 \text{ moles/liter} \times 0.1 \text{ liter} = 29.29 \text{ g}$ 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

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genomic DNA from bacteria; PCR amplification of DNA; Restriction enzyme digestion of DNA; Phenol/chloroform extraction of DNA

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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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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.

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