Calculations for Molecular Biology and Biotechnology: A Guide to Mathematics in the Laboratory (Paperback)

By Frank H Stephenson

Elsevier Science Publishing Co Inc, United States, 2010. Paperback. Book Condition: New. 2nd Revised edition. 231 x 188 mm. Language: English . Brand New Book. Calculations for Molecular Biology and Biotechnology: A Guide to Mathematics in the Laboratory, Second Edition, provides an introduction to the myriad of laboratory calculations used in molecular biology and biotechnology. The book begins by discussing the use of scientific notation and metric prefixes, which require the use of exponents and an understanding of significant digits. It explains the mathematics involved in making solutions; the characteristics of cell growth; the multiplicity of infection; and the quantification of nucleic acids. It includes chapters that deal with the mathematics involved in the use of radioisotopes in nucleic acid research; the synthesis of oligonucleotides; the polymerase chain reaction (PCR) method; and the development of recombinant DNA technology. Protein quantification and the assessment of protein activity are also discussed, along with the centrifugation method and applications of PCR in forensics and paternity testing. Key Features: * Topics range from basic scientific notations to complex subjects like nucleic acid chemistry and recombinant DNA technology * Each chapter includes a brief explanation of the concept and covers necessary definitions, theory and rationale...

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