

Questions on Genetics

a) Why is it easier to ligate sticky ends than blunt ends?

The sticky ends consist of regions of unpaired nucleotides called overhang which readily pairs with another sticky end with a complementary overhang whereas the blunt ends have their nucleotides already paired between the two strands of the DNA hence cannot be easily ligated with other nucleotides (Pedersen et al., 2014).

b) How many bases in a restriction site sequence need to be methylated to protect that site from restriction enzymes?

Only two, that is, Cytosine and Adenine of the four base pairs of the DNA can be methylated therefore enough to repress restriction. The methylation of cytosine is common in both eukaryotes and prokaryotes and differs among species while adenine methylation is common in bacteria, plants, and mammals (Wu et al., 2016).

c) What does a DNA substrate require [or have to have] to be ligated?

A DNA substrate requires four deoxyribonucleotide triphosphates (dNTPs) which are; dATP, dGTP, dTTP as well as dCTP which are cleaved forming deoxynucleotide monophosphates that get inserted into a new DNA strand. Also, the substrate requires ribonucleoside triphosphates (NTPs) which initiate and sustain the synthesis of DNA by synthesizing RNA primers and ATP. The ATP provides energy for the activation of the enzymes at the replication fork.

d) What is the value of using phosphatase when preparing substrates for a ligation?

Genetics Questions And Short Answers

Marco Cascella



Genetics Questions And Short Answers:

Zoology for B.Sc. Students Semester II: Genetics and Cell Biology (NEP 2020 Uttarakhand) VK Agarwal, This textbook has been designed to meet the needs of B Sc Second Semester students of Zoology as per the Common Minimum Syllabus prescribed for all Uttarakhand State Universities and Colleges under the recommended National Education Policy 2020 NEP 2020 The book has been presented in two parts namely Genetics and Cell Biology The first part Genetics discusses Mendel's life laws of dominance segregation and independent assortment Further it elucidates linkages crossing over sex linked inheritance and mutation Second part of the book delineates on Cell Biology discussing prokaryotic eukaryotic cells structure and functions of cell organelles Also cell division topic including the cell cycle mitosis and meiosis has been aptly discussed This textbook contains simple comprehensive up to date and well illustrated account of Genetics and Cell Biology Also special care has been taken to maintain clarity and authenticity of text and illustrations *Biology Problem Solver* Research & Education Association Editors, 2013-09 Each Problem Solver is an insightful and essential study and solution guide chock full of clear concise problem solving gems All your questions can be found in one convenient source from one of the most trusted names in reference solution guides More useful more practical and more informative these study aids are the best review books and textbook companions available Nothing remotely as comprehensive or as helpful exists in their subject anywhere Perfect for undergraduate and graduate studies Here in this highly useful reference is the finest overview of biology currently available with hundreds of biology problems that cover everything from the molecular basis of life to plants and invertebrates Each problem is clearly solved with step by step detailed solutions DETAILS The PROBLEM SOLVERS are unique the ultimate in study guides They are ideal for helping students cope with the toughest subjects They greatly simplify study and learning tasks They enable students to come to grips with difficult problems by showing them the way step by step toward solving problems As a result they save hours of frustration and time spent on groping for answers and understanding They cover material ranging from the elementary to the advanced in each subject They work exceptionally well with any text in its field PROBLEM SOLVERS are available in 41 subjects Each PROBLEM SOLVER is prepared by supremely knowledgeable experts Most are over 1000 pages PROBLEM SOLVERS are not meant to be read cover to cover They offer whatever may be needed at a given time An excellent index helps to locate specific problems rapidly Educators consider the PROBLEM SOLVERS the most effective and valuable study aids students describe them as fantastic the best books on the market TABLE OF CONTENTS Introduction Chapter 1 The Molecular Basis of Life Units and Microscopy Properties of Chemical Reactions Molecular Bonds and Forces Acids and Bases Properties of Cellular Constituents Short Answer Questions for Review Chapter 2 Cells and Tissues Classification of Cells Functions of Cellular Organelles Types of Animal Tissue Types of Plant Tissue Movement of Materials Across Membranes Specialization and Properties of Life Short Answer Questions for Review Chapter 3 Cellular Metabolism Properties of Enzymes Types of Cellular Reactions Energy

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