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web how could you test to see if an enzyme was completely saturated during an experiment by increasing the substrate concentration list three conditions that would alter the activity of an enzyme be specific with your explanation temperature ph and concentration can alter the activity of an enzyme web there are two ways to measure enzyme activity 1 determine the rate the substrate disappears 2 determine the rate of appearance of the product $2\text{H}_2\text{O}_2$ catalase $2\text{H}_2\text{O}$ O_2 what is the substrate H_2O_2 $2\text{H}_2\text{O}_2$ catalase $2\text{H}_2\text{O}$ O_2 what are the products $2\text{H}_2\text{O}$ O_2 catabolic reaction web enzymes are substrate specific meaning that they catalyze only specific reactions for example proteases enzymes that break peptide bonds in proteins will not work on starch which is broken down by the enzyme amylase notice that both of these enzymes end in the suffix ase this suffix indicates that a molecule is an enzyme web dec 1 2019 enzymes are proteins that speed up the rate of reactions that would otherwise happen more slowly the enzyme is not altered by the reaction you have hundreds of different enzymes in each of your cells each of these enzymes is responsible for one particular reaction that occurs in the cell web 2 describe the relationship between substrate and the product what happens when you increase the amount of substrate predict what would happen if you used 20 g of substrate and explain your reasoning behind the prediction 3 explain why the maximum initial reaction rate cannot be reached at low substrate concentrations 4 web the correct answer is c the rate of the reaction drops when the enzyme no longer has a maximum number of substrate molecules to interact with above the maximum substrate concentration the rate will not be increased by adding more substrate the enzyme is already working as fast as it can web sep 9 2021 enzymes accelerate the rate of chemical reactions by lowering the activation energy needed to trigger the reaction without enzymes chemical reactions would not occur fast enough to support life enzymes are typically proteins and each is composed of a specific sequence of amino acids web as long as there is substrate to bind to increasing enzyme concentration will speed up the process any increase in substrate will have no influence on the pace of reaction once all of the enzymes have bonded as the available enzymes will be saturated and functioning at their maximal rate web in this lab you will study an enzyme that is found in the cells of many living tissues the name of the enzyme is catalase it speeds up a reaction which breaks down hydrogen peroxide a toxic chemical into 2 harmless substances water and oxygen light can also break down H_2O_2 which is why the chemical is sold in dark containers web umuc biology 102 103 lab 4 enzymes answer key this contains 100 correct material for umuc biology 102 103 lab04 however this is an answer key which means you should put it in your own words here is a sample for the pre lab questions answered lab 4 enzymes answer key pre lab questions web enzyme activity lab report lab 11 enzyme activity i abstract enzymes are multi structured studocu full report abstract intro materials and methods results and discussion for enzyme activity lab lab 11 enzyme activity ii abstract enzymes are proteins skip to document ask an expert sign inregister sign inregister home ask an expertnew web view lab 8 enzymes answer sheet 1 1 1 pdf from ses n a at thousand oaks high school bio 101 laboratory name laboratory 8 enzymes factors affecting their rate and activity complete these web an enzyme reduces the energy necessary to start a chemical reaction this means the rate of reaction will a decrease b remain the same c increase d stop c increase enzymes in human cells tend to perform best a at 37 c b at 98 c c when the person has a fever d at 60 c e at 22 c a at 37 c web pre lab questions enzyme lab answer the following questions and submit at the start of the experimental enzymology lab session all page references are for the physiology lab manual starting from page 19 1 enzymes are that act as web as long as there is substrate to bind to increasing enzyme concentration will speed up the process any increase in substrate will have no influence on the pace of reaction once all of the enzymes have bonded as the available enzymes will be saturated and functioning at their maximal rate web enzymes are proteins that speed up the rate of reactions that would otherwise happen more slowly the enzyme is not altered by the reaction you have hundreds of

different enzymes in each of your cells each of these enzymes is responsible for one particular reaction that occurs in the cell

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