

# Ebook free Lactase enzyme lab answers Copy

in the final part of this lab you will test a range of temperatures to determine the optimal temperature for the enzyme catalase part a enzyme substrate specificity the enzyme invertase binds a substrate molecule and releases glucose as one of the reaction products lab 11 enzyme activity i abstract enzymes are multi structured proteins that behave and function as biological catalysts as most other biological components enzymes require specific physiological conditions in order to maximize their functional performance as catalysts study with quizlet and memorize flashcards containing terms like what temperature would you expect to the optimum for a human salivary amylase why is a human enzyme optimal temperature 37c what would you expect for amylase isolated from pugs and bacteria compared to humans and more study with quizlet and memorize flashcards containing terms like enzymes due to the presence of the millions of chemical reactions that occur in your body can be completed in a fraction of a second rather than decades that it would take without them enzyme catalyzed reactions can occur faster than they would without the enzyme study with quizlet and memorize flashcards containing terms like what effect will temperature have in enzyme activity why what effect will ph have on catalyses activity why what types of tissues do you think will have the strongest catalyses activity why and more enzymes are proteins that catalyze biochemical reactions by lowering the activation energy necessary to break the chemical bonds in reactants and form new chemical bonds in the products catalysts bring reactants closer together in the appropriate orientation and weaken bonds increasing the reaction rate 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 enzymes are proteins that catalyze biochemical reactions by lowering the activation energy necessary to break the chemical bonds in reactants and form new chemical bonds in the products catalysts bring reactants closer together in the appropriate orientation and weaken bonds increasing the reaction rate 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 in this lab you will study an enzyme that is found in the cells of many living tissues enzymes are biological catalysts and are usually proteins they greatly

increase the rate of chemical reactions by lowering the activation energy which is the energy required to start a reaction the metabolism of a cell depends upon enzymes in order to function correctly 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 how is enzyme activity influenced by ph a the ph influences temperature and therefore reaction rate b the ph changes the enzyme concentration c the ph can alter how the substrate fits in the active site d the ph alters the shape of the substrate enzymes are made up of that lower the activation energy needed to start chemical reactions which speeds up the total reaction click the card to flip proteins click the card to flip 1 21 flashcards learn test match q chat created by carissa rissa students also viewed evolution frayer models teacher mrsridgewayturner course mcat unit 6 enzyme structure and function questions google classroom enzymes catalyze biochemical reactions by altering which of the following quantities associated with the reaction choose 1 answer the enthalpy of formation  $\Delta h$  a the enthalpy of formation  $\Delta h$  the equilibrium constant  $k_{eq}$  b the equilibrium constant  $k_{eq}$  six types of enzymes an introduction to enzyme kinetics allosteric regulation and feedback loops enzymes questions google classroom if an enzyme functions to enable the following reaction which type of catalytic strategy is most likely given the chemical reaction shown choose 1 answer choice a proximity orientation catalysis a during an ongoing reaction the ph may change during the course of a reaction and this can affect the reaction speed that s why we add buffer to every enzymatic reaction study with quizlet and memorize flashcards containing terms like enzymes catalyst biocatalysts and more catalase seems to work best in a basic environment too much base or acid will denature the protein it is more important that students provide evidence from their experiment to support their claims claim evidence reasoning rubric in this laboratory you will demonstrate how altering the temperature enzyme concentration and ph will affect an enzyme s ability to function specifically you will be studying the actions of the enzyme catalase in fact there are thousands of different enzymes in your body that work around the clock to keep you healthy and active in this science activity you will investigate one of these enzymes called catalase to find out how it helps to protect your body from cell damage at what temperature does the rate decrease explain why the optimum temperature for catalase that makes it the most productive in terms of reaction rate is 50 degrees c and at 18 degrees c the rate decreases because enzymes are catalysts

for chemical processes enzyme reactions tend to be faster as temperature rises

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enzymes are proteins that catalyze biochemical reactions by lowering the activation energy necessary to break the chemical bonds in reactants and form new chemical bonds in the products catalysts bring reactants closer together in the appropriate orientation and weaken bonds increasing the reaction rate

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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

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enzymes are proteins that catalyze biochemical reactions by lowering the activation energy necessary to break the chemical bonds in reactants and form new chemical bonds in the products catalysts bring reactants closer together in the appropriate orientation and weaken bonds increasing the reaction rate

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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 in this lab you will study an enzyme that is found in the cells of many living tissues

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enzymes are biological catalysts and are usually proteins they greatly increase the rate of chemical reactions by lowering the activation energy which is the energy required to start a reaction the metabolism of a cell depends upon enzymes in order to function correctly

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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

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how is enzyme activity influenced by ph a the ph influences temperature and therefore reaction rate b the ph changes the enzyme concentration c the ph can alter how the substrate fits in the active site d the ph alters the shape of the substrate

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enzymes are made up of that lower the activation energy needed to start chemical reactions which speeds up the total reaction click the card to flip proteins click the card to flip 1 21 flashcards learn test match q chat created by carissa rissa students also viewed evolution frayer models teacher mrsridgewayturner

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course mcat unit 6 enzyme structure and function questions google classroom enzymes catalyze biochemical reactions by altering which of the following quantities associated with the reaction choose 1 answer the enthalpy of formation  $\Delta H_f$  a the enthalpy of formation  $\Delta H_f$  the equilibrium constant  $K_{eq}$  b the equilibrium constant  $K_{eq}$

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six types of enzymes an introduction to enzyme kinetics allosteric regulation and feedback loops enzymes questions google classroom if an enzyme functions to enable the following reaction which type of catalytic strategy is most likely given the chemical reaction shown choose 1 answer choice a proximity orientation catalysis a

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during an ongoing reaction the ph may change during the course of a reaction and this can affect the reaction speed that s why we add buffer to every enzymatic reaction study with quizlet and memorize flashcards containing terms like enzymes catalyst biocatalysts and more

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catalase seems to work best in a basic environment too much base or acid will denature the protein it is more important that students provide evidence from their experiment to support their claims claim evidence reasoning rubric

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in this laboratory you will demonstrate how altering the temperature enzyme concentration and ph will affect an enzyme s ability to function specifically you will be studying the actions of the enzyme catalase

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in fact there are thousands of different enzymes in your body that work around the clock to keep you healthy and active in this science activity you will investigate one of these enzymes called catalase to find out how it helps to protect your body from cell damage

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at what temperature does the rate decrease explain why the optimum temperature for catalase that makes it the most productive in terms of reaction rate is 50 degrees c and at 18 degrees c the rate decreases because enzymes are catalysts for chemical processes enzyme reactions tend to be faster as temperature rises

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