

Enzymes Study Guide

All of the reactions occurring in a cell require enzymes. Cells are sometimes described as “bags of enzymes” because enzymes are so critical to every cellular process and each cell contain many thousands of them. Besides the other roles they play in cells, proteins also serve as enzymes.

(Refer to Chapters 2 and 3)

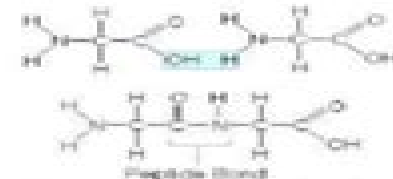
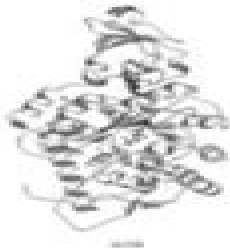
Enzymes

- Draw and label an energy hill diagram for reactions with and without an enzyme.
- Define **activation energy**.
- Define the term **catalyst**. Distinguish between a **catalyst** in general and an **enzyme**
- Describe the chemical makeup of an enzyme.
 - Describe and/or draw a “**lock and key**” model of enzyme function. Define the **active site** of an enzyme
 - Identify the enzyme, **substrate**, and **products** in an enzymatic reaction.
 - Interpret graphs showing the reaction rates of enzymes under various conditions.
 - Explain the relationship between enzymes and **substrates**.
 - Identify enzymes and substrates for labs performed in class.
- Explain and/or describe the results of lab activities and/or demos.
- Explain the effect of the following factors on enzyme function: pH, temperature, heavy metal.
- Explain why an enzyme no longer functions if it is **denatured** (i.e.: if its shape is changed).



Proteins

- Describe the chemical structure of proteins. (i.e.: know the “building blocks”)
- Know the structure of an **amino acid**. Know what makes each one different.
- Draw and/or recognize a **dehydration synthesis** (condensation) reaction to create a dipeptide (2 a.a. linked together).
 - Locate **peptide bonds** within a picture of a polypeptide.
 - Explain why different proteins have different shapes and explain why the shape of a protein is important.
 - Explain the relationship between proteins and DNA.



A molecule of water is released from two glycine amino acids to form a peptide bond.

Study Guide On Enzymes

**Marcia L. Gillette, Ira Blei, Wendy
Gloffke, George Odian**



Study Guide On Enzymes:

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web this usually does the trick if you need to make this dairy free you can use unsweetened oat milk instead of milk unsweetened coconut cream instead of heavy cream and vegan cream cheese instead of regular cream cheese recipe slightly adapted from ninja creami

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web jul 27 2023 for the full vanilla ice cream recipe for the ninja creami with measurements see the recipe card at the end of the post place your half and half sugar vanilla extract and a pinch of salt into a blender

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sugar in this recipe helps create a silky smooth texture that you will love

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web in a large microwave safe bowl microwave the cream cheese for 10 seconds add the sugar and vanilla and combine until the mixture is smooth and creamy slowly mix in the heavy cream and milk until fully combined and sugar is dissolved pour base into an empty creami pint

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web in a small mixing bowl or large liquid measuring cup combine instant pudding mix and milk whisk together until pudding mix dissolves add heavy cream and vanilla extract whisking just to combine transfer mixture to a ninja creami pint being careful not to exceed the max fill line and close the lid

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web la carte réalisée en 1800 du département rhône et loire le rhône et loire recouvrait l'actuel département du rhône et la métropole de lyon y compris la commune de la guillotière à l'exception cependant des communes suivantes

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web loire is part of the current administrative region of auvergne rhône alpes and is surrounded by the départements of rhône isère ardèche haute loire puy de dôme allier and saône et loire the river loire traverses the department from south to north

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web le département de la loire est un département de la région auvergne rhône alpes il doit son nom au fleuve qui le traverse du sud au nord sur plus de 100 km les principales villes du département sont saint etienne la préfecture saint chamond et roanne

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web the loire gives its name to six departments loire haute loire loire atlantique indre et loire maine et loire and saône et loire the lower central swathe of its valley straddling the pays de la loire and centre val de loire regions was added to the world heritage sites list of unesco on december 2 2000

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web rhône french pronunciation arpitan rôno is a department of east central france in the central southeastern auvergne rhône alpes region named after the river rhône its prefecture is lyon

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web departments are further subdivided into 333 arrondissements and 2 054 cantons as of 2023 1 these last two levels of government have no political autonomy instead serving as the administrative basis for the local organisation of police fire departments as well as in certain cases elections

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