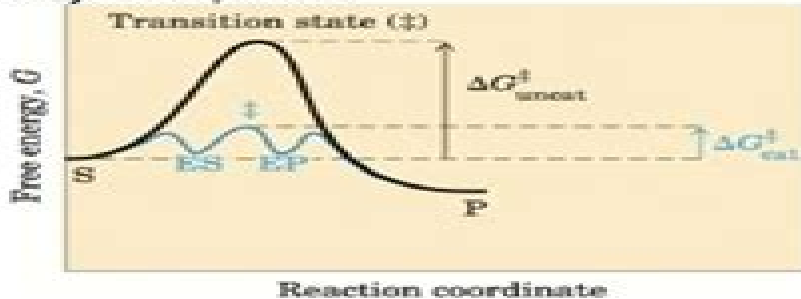


# Biochem Lab – 2025-2026 Complete Exam with Correct Answers (A+ Rated) | Chamberlain University

## ENZYMES PRINCIPLES, CLASSIFICATION, AND MECHANISM OF ACTION

### ENZYMES

- Proteins that act as biological **catalysts**.
- At biological conditions, biomolecules are stable. For them to be metabolized, most reactions in the body rely on the action of enzymes to proceed.



### ENZYME STRUCTURE

**Adylyase** (Adylyl,  $\text{C}_{12}\text{H}_{22}\text{O}_{11}$ ) – an enzyme found in saliva and pancreas – is responsible for the hydrolysis of sugars during digestion.

**Active site (in red)**

- the substrate binding and catalytic site of the enzyme.
- is complementary to the shape of the substrate.

**Substrate (in yellow)**

- the molecules which are acted upon by enzymes.
- In the case of Adylyase, the substrate (shown) is a short chain polysaccharide which will be broken down into smaller sugar units.

When the substrate is bound to the active site, the resulting structure is known as the **Enzyme-Substrate Complex**.

**Catalysis**

- are reactions which are needed to create enzymes to the active site.
- Adylyase needs Chloride ions, zinc, glycine and Calcium for high ground to function.

Some enzymes need a coenzyme to function. The resulting protein part of the enzyme is known as an **Apoenzyme**.

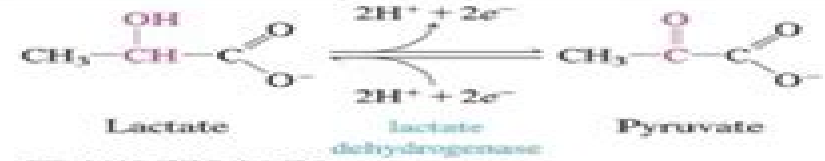
Once a coenzyme is bound and the enzyme becomes active, it is known as a **Holoenzyme**.

### CLASSIFICATION OF ENZYMES

- Enzymes are classified into six (6) major groups based on the reaction they catalyze.

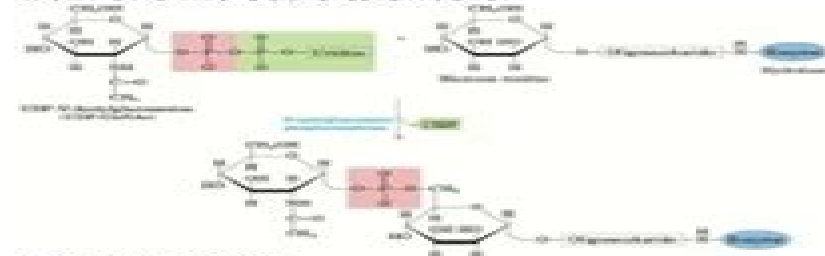
#### OXIDOREDUCTASES

- Catalyzes oxidation and reduction reactions.
- Usually requires a coenzyme to function (in the form of NADP<sup>+</sup> or NAD<sup>+</sup>).



#### TRANSFERASES

- Catalyzes the transfer of a functional group from one molecule to another.



#### HYDROLASES

- Catalyze the removal of bonds via hydrolysis.



#### LYASES

- Catalyze the addition of groups to double bonds.
- Can also catalyze the formation of double bonds by removal of groups.



#### ISOMERASES

- Catalyze the interconversion of a molecule to its isomers.

# Biochem Lab Exam Pdfslibforyou

**Jiyuan Zhang**



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