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Chapter 8

ENZYMOLOGY

Life would not be possible without metabolic activities going on. This in turn is dependent upon the catalytic molecules called the enzymes. Without enzymes, the dynamics, namely state of the cell would cease to exist.

Life is a complex world with everything in perfect coordination of a vast majority of chemical reactions. Some of these reactions result in synthesising large molecules, others in breaking large molecules and still others either utilise energy or liberate energy. All these reactions could occur very slowly at low temperature and atmospheric pressure, the conditions under which living cells carry on their life processes, but in the living system these reactions proceed at extremely high rates. This is due to the presence of some specialised substances or biocatalysts which are synthesised inside the living cells. These biocatalysts are called **enzymes** (En-Do is its name in Greek). The term **enzyme** was coined by Frederick Mather Ruffin COOPER. Enzymes may be defined as organic substances capable of catalysing specific chemical reactions in the living system. Just a few years ago, it was considered that all enzymes were proteins. During the 1980s, however, Thomas Cech and Sidney Altman discovered that certain molecules of ribonucleic acid also function as enzymes. These molecules are called **riboenzymes**, which catalyse reactions involved in processing genetic information to be used by a cell but generally enzymes are proteinaceous in nature.

8.1 ENERGY OF ACTIVATION

The question arises then, how enzymes are able to overcome such effective activation and why thermodynamically favourable reactions do not proceed at their own at relatively rapid rates in the absence of enzymes?

Chemical transformation requires that certain chemical bonds be broken within the reactants. To do so, the reaction must proceed sufficient kinetic energy (energy of motion) to overcome a barrier called energy of activation or activation energy. The important role played by the enzymes during reactions is that they lower the activation energy of the reaction. The enzyme reacts with the energy rich and energy poor molecules to form an enzyme-substrate complex. This complex approaches into product and enzyme. If activation energy of this complex is low, many molecules can participate in reaction. In this way activation energy is lowered by the enzyme but in this action equilibrium state of concentration of reactant and product is never altered, it remains the same.

8.2 CHARACTERISTICS OF ENZYME

Enzymes are biocatalysts produced in the protoplasm. They are synthesised in the cell. The basic properties of enzymes are:

(i) Most of the enzymes are proteinaceous in nature. They are macromolecules of globular proteins with higher molecular weights. They may entirely consist of protein e.g., **amylase** or **pepsin** or may contain, along with protein, a non-protein part, e.g., **haemoglobin**.

(ii) They react with both acidic and alkaline substances due to the presence of protein as their major part.

(iii) Enzymes generally act within the living cell where they have been produced but sometimes they diffuse out of the cell and perform catalytic function out side the cell or in other cells. An enzyme which acts within the same cell is called **intracellular enzymes** or **endoenzymes** and the enzyme which acts outside the cell is called **exoenzymes**.



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