

Bioenergetics and Bioprocess Engineering

15.01.2024) How Enzymes Work

* Enzyme kinetics:

- Enzymes lowers the Activation Energy of the Rxn catalyzed by binding the substrates and forming an enzyme-substrate complex.
- Enzyme doesn't affect the free-energy change or the equilibrium constant.
- The molecular aspects of enzyme-substrate interaction are not yet understood. The interaction varies one enzyme complex to another.

→ Various studies using X-ray and Raman-spectroscopy have revealed the presence of enzyme-substrate complex [ES]

→ The interaction between the enzymes and its substrates is usually by weak forces. In most cases, Van-Der-Waals forces and H-bonding are responsible for the formation of ES complex.

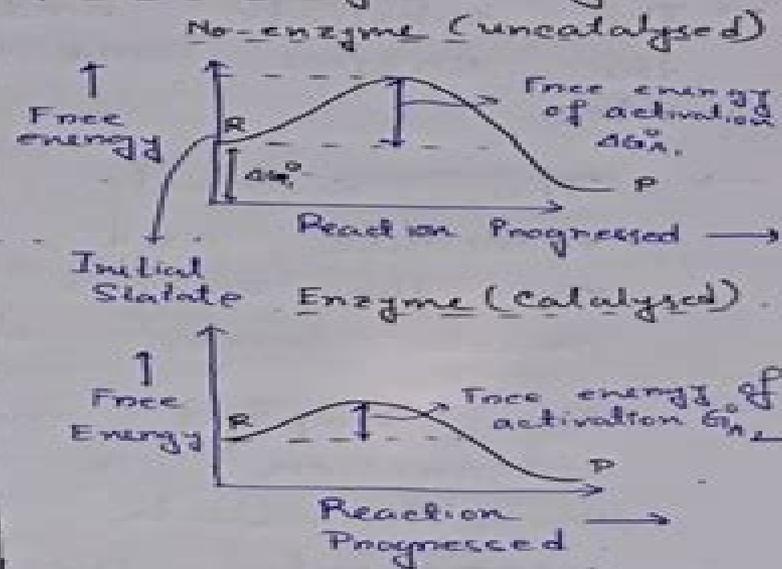


Fig → Activation energies of Enzymatically catalysed and uncatalysed Rxn's.

Bioprocess Engineering Notes By Shular

ML Morrison



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