

ENZYMOMOLOGY TECHNIQUES

**One Month Online Laboratory
Practices**



**Any Biology, Chemistry,
Biotechnology, Microbiology,
Biochemistry, Agriculture, Food Science,
Home Science, Pharmacy
student/Faculty can join**

Job Prospects: Industry/Research

TECHNIQUES TO BE COVERED

1. Introduction to Enzymology.
2. Sterilization Techniques.
3. Isolation of Microorganisms from natural sources.
4. Pure culture Preparation.
5. Screening of purified cultures for Enzyme activity.
6. Identification of unknown microorganisms.
7. Fermentation.
8. **Downstream Processing.**
 - a. Extraction of Crude Enzyme.
 - b. **Purification of enzyme.**
 - I. Precipitation of Enzyme.
 - II. Dialysis.
 - III. Ion Exchange Chromatography.
 - IV. Thin Layer Chromatography (depending on enzyme).
9. **Characterization of Purified Enzyme**
 - a. **Total protein estimation**
 - I. Bradford's Method.
 - II. Lowry's Method.
 - b. Enzyme Assay
 - c. **Enzyme Kinetics**
 - I. Effect of pH on Enzyme Activity
 - II. Effect of Temperature on Enzyme Activity
 - III. Effect of Substrate Concentration on Enzyme Activity
 - IV. Effect of Activator on Enzyme Activity
 - V. Effect of Inhibitor on Enzyme Activity
 - d. SDS PAGE
10. Immobilization of Enzymes

**Register
at**



itlsacademy

Empower the youth | Since : 2008



subscribe
ITLS ACADEMY



Helpline : 7080 833 450

www.itlsacademy.com