

TRAINING IN ENZYMOLOGY

Ist Week - Basics of Enzyme Production

- Day 1: Lab safety and Procedures , Chemical & Reagent Preparation
- Day 2: Microbial Selection & Preparation for Enzyme Production
- Day 3: Medium Optimization by Plackett and Burman Design
- Day 4: Effect of pH on enzyme activity
- Day 5: Effect of temperature on enzyme activity



IIInd Week - Enzyme Assay For Optimisation

- Day 1: Enzyme Kinetics Assay
- Day 2: Batch Growth Kinetics of Microbe
- Day 3: Determination of KLa by Sulphite Oxidation Method
- Day 4: Enzyme Immobilization
- Day 5: Cell Disruption & Estimation of Enzyme



IIIrd Week - Downstream Processing of Enzyme

- Day 1: Recovery by ammonium sulphate precipitation
- Day 2: Two phase extraction for partition coefficient.
- Day 3: Dialysis or Desalting of Enzyme Sample
- Day 4: SDS-PAGE of Crude Enzyme
- Day 5: Preparation for Protein Purification Strategies (DEAE Sepharose / SP Sepharose / CM Sepharose)



IVth Week - Enzyme Purification

- Day 1: Purification of Enzyme by Size Exclusion Chromatography (FPLC)
- Day 2: Quantification & Purification of Enzyme by HPLC
- Day 3: SDS-PAGE of Purified Enzyme & Molecular Weight Determination
- Day 4: Separation & Detection of Enzyme by RP-HPLC
- Day 5: Data Analysis



Vth Week - Project Work

We will share our ideas and decide for small piece of research in limited time frame.

Cost of Training : Training Only -INR 10,000 / -
Training + Project - INR 12,000/-

Duration : 80 to 100 Hrs or 4 to 6 Weeks



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