MICROBIAL BIO TECHNOLOGY AND ENZYME TECHNOLOGY

Enzyme technology is a sub field of biotechnology which involves newer process or product is being developed by use of enzyme as biocatalysts, in order to meet industrial needs.

Microbiology

- To isolate and identification of microorganism bacteria and fungi.
- Serial dilution technique, Staining techniques, Plate technique, differential striking.
- Pure culture techniques, Biochemical characterization, 16s rRNA sequencing.
- Antimicrobial activity –Zone of inhibition. **MIC, MBC**

Enzymology

Microbial Enzyms

Isolation from various sources Soil, Air, food, etc., (amylase, Protease, Lipase, cellulose & Pectinase)

Biochemical Characterization

Staining, Motility test, Catalytic test, Indole test, Starch hydrolyses, Citrate test, Oxidase test etc.,

Molecular Characterizations

SDS page, 16s rRNA.