

Practical module 1

1. Titration of monoacid- determination of pKa values.
2. Determination of PH
3. Separation of plant pigments, amino acids by Paper and TLC.
4. Study of affinity and ion exchange chromatography.
5. Study of differential centrifugation.
6. Determination of lamda max.
7. Electrophoresis of nucleic acid by agarose gel electrophoresis.
8. Electrophoresis of proteins by PAGE
9. Electrophoresis of proteins by SDS PAGE
10. To determine MIC, LD 50 of Beta -lactum
11. Sterility testing by Bacillus stearothermophilus
12. Determination of D value, Z value for heat sterilization in pharmaceuticals
13. Determination of antimicrobial activity of a chemical compound.(phenol,resorcinol)

Practical module 2

1. Measurement of Kla
2. Fermentation of gluconic acid, ethanol, citric acid.ss
3. Fermentation of antibiotic =penicillin
4. Estimation of penicillin. By chemical method.
5. Bioassay of penicillin.
6. Production of amylase, protease and lipase.
7. Microbial analysis of milk and food.
8. Production of beer and wine.
9. Production of PHB.
10. Conjugation in E. coli
11. Transduction
12. Plasmid curring
13. Phage titration
14. Isolation of DNA from bacteria,
15. Isolation of antibiotic resistant mutant by direct and indirect method.
16. Find out uv and temperature survival curve of bacteria.
17. Isolation of auxotrophic mutant.
18. Isolation of respiratory deficient mutant.