

MIC 101-P MICROBIAL BIOCHEMISTRY [P]

Practical Course Credit : 1

Contact Hours : 30

1. Standard curve for sugar.
2. Standard curve for protein.
3. Enzyme assay.
4. Precipitation of protein from solution by salting out.
5. Dialysis.
6. Molecular exclusion chromatography.
7. Specific activity, fold purification, percentage yield of enzyme.
8. Molecular weight determination by SDS-PAGE.

Reference Books (Composite list for theory and practicals):

1. Lehninger, A., Cox, M. and Nelson, D. L., Principles of Biochemistry, W. H. Freeman & Company.
2. Moat, A. G., Foster, J. W. and Spector, M. P., Microbial Physiology, A. John Wiley & Sons Inc. Publication.
3. Bull, A. T. and Meadow, P., Companion to Microbiology, Longman Group Limited, New York.
4. Voet, D., Voet, J. G. and Pratt, C. W., Principles of Biochemistry, John Wiley and Sons Inc.
5. Murray, R. K., Bender, D. A., Botham, K. M., Kennelly, P. J., Rodwell, V. W. and Weil, P. A., Harper's Illustrated Biochemistry, The McGraw-Hill Companies, Inc.
6. Plummer, D. T., An Introduction to Practical Biochemistry, Tata McGraw Hill Publishing Company.
7. Sadasivam, S., Manickam, A., Biochemical Methods, New Age International (P) Limited.
8. Jayaraman, J., Laboratory Manual in Biochemistry, John Wiley & Sons, Limited, Australia.