

BCO 101-P GENETIC ENGINEERING [P]

Practical Course Credit : 1

Contact Hours : 30

1. Restriction mapping of bacterial plasmid and agarose gel analysis
2. Preparation of competent cells and transformation of *E. coli* host with plasmid DNA using heat shock method and eporator; confirmation of positive transformants.
3. Demonstration of insertional inactivation of marker gene
4. Assessment of DNA ligation activity of T4 DNA ligase

Reference Books (Composite list for theory and practicals)

1. Sambrook et al., Molecular Cloning: A Laboratory Manual
2. Davis, L.G., Dibner, M.D. & Battey, J.F. Basic Methods in Molecular Biology.
3. Gerhardt., Murray., Wood. & Krieg., Methods for General and Molecular Bacteriology.