

PS01CMIC54: Laboratory I

List of Practical Exercises:

1. Orientation to the Microbiology laboratory, general laboratory safety and good laboratory practices.
2. An orientation to common laboratory equipments used in Microbiology laboratory.
3. Biochemical calculations
4. Isolation of Pure culture
5. Isolation of genomic DNA from *E. coli*.
6. Quantification of DNA by UV absorption.
7. Estimation of DNA by DPA method
8. RNA estimation by orcinol method
9. Induction of beta-galactosidase and its assay
10. Separation of amino acids by thin layer chromatography.
11. Determination of λ_{max} and validation of Beer-Lamberts law.