





Department of Biotechnology	LP: BT18512 Rev. No: 00
B.E/B.Tech/M.E/M.Tech : B.Tech Specialisation : Biotechnology	Regulation: 2018A Date: 11/07/2023
Sub. Code / Sub. Name : BT18512 Molecular Biology Laboratory	

Session No*	List of Experiments
CYCLE-I	
1	AGAROSE GEL ELECTROPHORESIS
2	ISOLATION OF GENOMIC DNA FROM BACTERIA
3	ISOLATION OF DNA FROM PLANT CELL BY CTAB
4	ISOLATION OF ANIMAL CELL GENOMIC DNA
5	RESTRICTION ENZYME DIGESTION OF PLASMID
6	COMPETENT CELL PREPARATION
7	TRANSFORMATION AND SCREENING OF COMPETENT CELLS
CYCLE-II	
8	BLUE AND WHITE CELLS SELECTION FOR RECOMBINANTS
9	PLATING OF LAMBDA PHAGE
10	LAMBDA PHAGE LYSIS OF LIQUID CULTURE
11	ISOLATION OF RNA FROM PLANT CELL
12	ISOLATION OF DNA FROM PLANT CELL BY SDS METHOD
13	ISOLATION OF PLASMID DNA BY ALKALI LYSIS METHOD
14	Model Exam
Content beyond syllabus (if any): Extraction of plasmid DNA by alkali lysis method , Transformation of competent cells by electroporation method.	

* Session Duration: 200 minutes



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	Prepared by	Approved by
Signature		
Name	Dr. V. Sumitha	Dr. E. Nakkeeran
Designation	Professor	Professor & HOD
Date	11.07.2023	11.07.2023
Remarks* :		
Remarks* :		

* If the same lab plan is followed in the subsequent semester/year it should be mentioned and signed by the Faculty HOD