

DEPARTMENT OF BIOTECHNOLOGY
SRIPAT SINGH COLLEGE
REQUISITION

SI No.	Name of the Reagent	Quantity	Preferred Brand
1.	Kovac's Reagent (p-dimethylaminobenzaldehyde in amyl alcohol HCl)	100 ml	Sigma
2.	Alpha naphthol reagent prepared in acetic acid	100 ml	
3.	Sulfanilic acid reagent	100 ml	
4.	Alpha naphthylamine	100 g	Merck, analytical grade
5.	Leuco malachite Green	50 g	Himedia, genei,
6.	10X PCR Buffer	4 vial (1 ml each)	Himedia, genei, qiagen, invitrogen
7.	dNTP mix (100mM of each dNTP)	2 vial (1 ml each)	Himedia, genei, qiagen, invitrogen
8.	Taq Polymerase (1U/ul)	500 unit	Himedia, genei, qiagen, invitrogen
9.	Lambda DNA	10 rxn	Addgene,
10.	Pfu Polymerase (1U/ul)	100 unit	Genei, invitrogen, qiagen,
11.	EcoRI Restriction endonuclease	2 vial (100 unit each)	Himedia, genei, qiagen, invitrogen
12.	BamHI Restriction endonuclease	2 vial (100 unit each)	Himedia, genei, qiagen, invitrogen
13.	HindIII Restriction endonuclease	2 vial (100 unit each)	Himedia, genei, qiagen, invitrogen
14.	XhoI Restriction endonuclease	2 vial (100 unit each)	Himedia, genei, qiagen, invitrogen
15.	NotI Restriction endonuclease	2 vial (100 unit each)	Himedia, genei, qiagen, invitrogen
16.	10X Restriction Digestion Buffer	3 vial (1 ml each)	Himedia, genei, qiagen, invitrogen
17.	Nuclease free water	50 ml	Himedia, genei, qiagen, invitrogen
18.	Plasmid DNA Isolation Kit	20 practical	Himedia, genei, qiagen, invitrogen
19.	Gel Extraction Kit	10 practical	Himedia, genei, qiagen, invitrogen
20.	PCR Product Purifying Kit	10 practical	Himedia, genei, qiagen, invitrogen
21.	Restriction Digestion Kit	20 practical	Himedia, genei, qiagen, invitrogen
22.	PCR kit	20 practical	Himedia, genei, invitrogen, qiagen
23.	SGOT estimation Kit	20 rxn	qiagen, invitrogen, genei
24.	SGPT estimation Kit	20 rxn	qiagen, invitrogen, genei
25.	Urea estimation Kit	20 rxn	qiagen, invitrogen, genei
26.	Creatinine estimation Kit	20 rxn	qiagen, invitrogen, genei
27.	Glucose estimation Kit	20 rxn	qiagen, invitrogen, genei
28.	Cholesterol estimation Kit	20 rxn	qiagen, invitrogen, genei
29.	Bilirubin estimation Kit	20 rxn	qiagen, invitrogen, genei
30.	Blood Grouping Kit	100 practical	Himedia, qiagen, invitrogen

31.	Bacterial Genomic DNA Isolation Kit	20 practical	Himedia, qiagen, invitrogen
32.	Plant Genomic DNA Isolation Kit	20 practical	Himedia, qiagen, invitrogen
33.	GC rich Buffer	1 vial	Promega, Neb, genei, invitrogen
34.	5X ligation Buffer	1 vial (1 ml)	Promega, Neb, invitrogen, qiagen
35.	T4 DNA ligase (1U/ul)	500 unit	Promega , Neb, himedia, qiagen,
36.	Trizol reagent	250 ml	Himedia, invitrogen, qiagen
37.	Phosphate Buffered Saline (PBS)	100 ml	Himedia, invitrogen, qiagen
38.	Roche Protein Isolation Buffer	2 vial (1 ml each)	Roche
39.	Proteinase Inhibitor Cocktail	1ml	Himedia, invitrogen, qiagen, genei
40.	RNase A (20 mg/ml)	2 ml	Himedia, invitrogen, qiagen, genei
41.	Big Dye		Promega, invitrogen, qiagen, genei
42.	M13R		Promega, invitrogen, qiagen, genei
43.	5X sequencing Buffer	1 ml	Promega, invitrogen, qiagen, genei
44.	HDF		Promega, invitrogen, qiagen, genei
45.	Ligation Kit	20 rxn	Promega, invitrogen, qiagen, genei
46.	10X Promega Buffer D	2ml	Promega , invitrogen, qiagen, genei
47.	ATP	500 ul	Promega, invitrogen, qiagen, genei
48.	10X NEB Ligation Buffer	2 ml	Neb, invitrogen, qiagen, genei
49.	SybrGreen	10 rxn	Himedia, invitrogen, qiagen, genei
50.	Site Directed Mutagenesis-KDL kit	10 rxn	Invitrogen, qiagen, genei,
51.	Reverse Transcriptase Kit	10 practical	Himedia, invitrogen, qiagen, genei
52.	Haemoglobin Measurement Kit	4 practical	Himedia, invitrogen, qiagen, genei
53.	WBC staining Kit	100 practical	invitrogen, qiagen, genei
54.	ELISA Kit	4 practical	Himedia, invitrogen, qiagen, genei
55.	Double immunediffusion kit	20 practical	Himedia, invitrogen, qiagen, genei
56.	Ni-NTA Resin		
57.	Bacterial Capsule staining Kit	10 practical	Himedia, invitrogen, qiagen, genei
58.	Bacterial Endospore staining Kit	5 practical	Himedia, invitrogen, qiagen, genei
59.	TA cloning kit	50 rxn	Promega, invitrogen, qiagen, genei
60.	16S rRNA semi quantitative PCR kit	10 rxn	Himedia, invitrogen, qiagen, genei
	cDNA synthesis kit	100 rxn	Himedia, invitrogen, qiagen,

61.			genei
62.	1 kb DNA Ladder	3 vial	Himedia, invitrogen, qiagen, genei
63.	Protein ladder	3 vial	Himedia, invitrogen, qiagen, genei
64.	50XTAE buffer	100 ml	Himedia, invitrogen, qiagen, genei
65.	DNA powder	10g	Himedia, genei, invitrogen, qiagen,
66.	RNA powder	10g	Himedia, genei, invitrogen, qiagen,
	List of Media/ Antibiotics		
1.	Nutrient Broth (NB) Media	500 g	Himedia
2.	Chrome Agar Media	50 g	Himedia
3.	Luria Bertani (LB) Media	500 g	Himedia
4.	Murashige and Skoog Media	500 g	Himedia
5.	Agarose	250 g	Himedia, merck
6.	Agar	1 kg	Himedia, merck
7.	Tryptone	500 g	Himedia
8.	Casein enzymic hydrolysate	500 g	Himedia
9.	Beef extract	500 g	Himedia
10.	Yeast extract	500 g	Himedia
11.	Peptone	500 g	Himedia
12.	Ampicillin	1 g	
13.	Kanamycin	1 g	
14.	Chloramphenicol	1 g	
15.	Tetracycline	1 g	
	List of Stain/Indicator		
1.	Acidic Fuschin	125 ml	Himedia, merck
2.	Basic Fuschin	125 ml	Himedia, merck
3.	Congo red	125 ml	Himedia, merck
4.	Neutral red	125 ml	Himedia, merck
5.	Phenol red	125 ml	Himedia, merck
6.	Methyl red	125 ml	Himedia, merck
7.	Bromothymol blue	125 ml	Himedia, merck
	List of Chemicals		
1.	Ethanol	20 bottle (500 ml each)	Merck, himedia, analytical grade
2.	Spirit	5 L	Merck, himedia, analytical grade
3.	Isopropanol	10 bottle (500 ml each)	Merck, himedia, analytical grade
4.	Acetic acid	5 bottle (500 ml each)	Merck, himedia, analytical grade
5.	Methanol	5 bottle (500 ml each)	Merck, himedia, analytical grade
6.	Pyridine	5 bottle, 500 ml each	Merck, himedia, analytical grade
7.	Potassium iodate	50 g	Merck, analytical grade
8.	Potassium iodide	50g	Merck, analytical grade
9.	Ammonium thiocyanate	50 g	Merck, analytical grade
10.	Ammonium molybdate	50 g	Merck, analytical grade

11.	Sodium sulphate	100 g	Merck, analytical grade
12.	Potassium hydroxide	100 g	Merck, analytical grade
13.	Sodium citrate	50 g	Merck, analytical grade
14.	NH ₄ H ₂ PO ₄	50 g	Merck, analytical grade
15.	Magnesium sulphate	50 g	Merck, analytical grade
16.	K ₂ HPO ₄	50 g	Merck, analytical grade
17.	KH ₂ PO ₄	50g	Merck, analytical grade
18.	Sucrose	100 g	Merck, analytical grade
19.	Glucose	100 g	Merck, analytical grade
20.	Mannose	100 g	Merck, analytical grade
21.	Sodium thiosulphate	100 g	Merck, analytical grade
22.	Ferrous ammonium sulphate	100 g	Merck, analytical grade
23.	Hydrogen sulphide	100 g	Merck, analytical grade
24.	Hydrogen peroxide	500 ml	Merck, analytical grade
25.	Tetramethyl-p-phenylenediamine dihydrochloride	50 g	Merck, analytical grade
26.	Zinc dust	100 g	Merck, analytical grade
27.	Ascorbic acid	50 g	Merck, analytical grade
28.	Potassium tartrate	50 g	Merck, analytical grade
29.	Antimony potassium tartrate	50 g	Merck, analytical grade
30.	Sodium nitrate	100 g	Merck, analytical grade
31.	Sodium nitrite	100 g	Merck, analytical grade
32.	HCL	5 L	Merck, analytical grade
33.	H ₂ SO ₄	5 L	Merck, analytical grade
34.	Acetone	2.5 L	Merck, analytical grade
35.	Magnesium carbonate	100 g	Merck, analytical grade
36.	Sodium arsenite	100 g	Merck, analytical grade
37.	Sodium arsenate	100 g	Merck, analytical grade
38.	Mannitol	50 g	Merck, analytical grade
39.	Chloroform	2 L	Merck, himedia,
40.	Silver diethyl dithio carbamate (SDDC)	50 g	Himedia
41.	Glycerol	1 L	Himedia
42.	DEPC	50 ml	Sigma
43.	Sodium acetate	100 g	Merck, analytical grade
44.	Paraffin liquid	50 ml	Himedia
45.	NaCl	100 g	Merck, analytical grade
46.	Lactose	100 g	Merck, analytical grade
47.	Amino acid stocks	1 vial	Himedia
48.	BSA	50g	Himedia, SRL, indiamart
49.	Acrylamide	500 g	Merck, analytical grade
50.	SDS	1 kg	Merck, analytical grade
51.	Tris Cl	500 g	Merck, analytical grade
52.	Glycine	500 g	Merck, analytical grade
53.	APS	100 g	Merck, analytical grade
54.	TEMED	250 ml	Merck, analytical grade
55.	Bisacrylamide	50 g	Merck, analytical grade
	List of Plasmid/Vector		
1.	Pet28A (Kanamycin resistant)	40 rxn	Addgene, invitrogen, qiagen, genei
2.	Pet Duet (Ampicillin resistant)	40 rxn	Addgene, invitrogen, qiagen, genei

3.	PTZ57R/T Vector	40 rxn	Promega, invitrogen, qiagen, genei
	List of Host		
1.	DH5alpha competent cell	40 rxn	Thermo, invitrogen, qiagen, genei
2.	BL21	40 rxn	Thermo, invitrogen, qiagen, genei
3.	Top10	40 rxn	Thermo, invitrogen, qiagen, genei
	List of Plastic wares		
1.	20ul Pipette tips	30packet	Tarson
2.	200ul Pipette tips	100packet	Tarson
3.	1000ul Pipette tips	50packet	Tarson
4.	15ml Falcon	100	Tarson
5.	1ml Micro centrifuge tubes	20packet	Tarson,
6.	50ul PCR tubes	200	Himedia
7.	Cardboard box (100 place)	20	
8.	Micro pestle homogenizer	12	Indiamart
9.	Agarose apparatus	1	Biorad
10.	SDS apparatus	1	Biorad
	List of Glass wares		
1.	Glass slide	3 box	
2.	Cover slip (square)	5 box	
3.	50ml Conical	10	Borosil, Indiamart,
4.	100ml Conical	25	Borosil, Indiamart,
5.	250ml Conical	25	Borosil, Indiamart,
6.	500ml Conical	10	Borosil, Indiamart,
7.	1L Conical	4	Borosil, Indiamart,
8.	Beaker 100 ml	15	Borosil, Indiamart,
9.	Beaker 250 ml	10	Borosil, Indiamart,
10.	Beaker 500 ml	10	Borosil, Indiamart,
11.	Beaker 1L	10	Borosil, Indiamart,
12.	Volumetric flask 100ml	10	Borosil, Indiamart,
13.	Volumetric flask 250ml	10	Borosil, Indiamart,
14.	Volumetric flask 500ml	10	Borosil, Indiamart,
15.	Volumetric flask 1L	10	Borosil, Indiamart,
16.	Petri plates 90x12mm	20	Borosil, Indiamart,
17.	Test tubes	100	Borosil, Indiamart,
18.	Darham's tube	20	Borosil, Indiamart,
19.	Glass pipette 1ml	5	Borosil, Indiamart,
20.	Glass pipette 5ml	5	Borosil, Indiamart,
21.	Glass pipette 10ml	5	Borosil, Indiamart,
22.	Gutzeit apparatus	6	Borosil, Indiamart,
23.	Measuring cylinder 100ml	2	Borosil, Indiamart,
24.	Burette 100ml	10	Borosil, Indiamart,
25.	Measuring cylinder 500ml	2	Borosil, Indiamart,
26.	Measuring cylinder 1L	2	Borosil, Indiamart,
27.	Parafilm	1 roll	
28.	Zip lock medium and large	1 packet each	

DEPARTMENT OF BOTANY
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REQUISITION

Sl. No.	Chemicals and Specimens	Manufacturer(s)	Specification
1	Oxalic acid	Merck	500gm
2	Malic acid	Merck	500gm
3	Dextrose	Merck/Himedia	500gm
4	Sucrose	Merck/Himedia	500gm
5	Potassium Sulphate	Merck	500gm
6	Glucose	Merck/Himedia	500gm (2 unit)
7	Fructose	Merck/Himedia	500 gm
8	Na ₂ SO ₄ solution		500 ml
9	Phloroglucinol	Himedia	25 gm
10	Millon's reagent		100 ml
11	Chloroform(MB)	Himedia	500 ml
12	CuSO ₄	Himedia	500 gm
13	Sudan III	Himedia	10 gm (2 units)
14	Osmic acid	Himedia	1 gm
15	NaOH Flakes	Himedia	500 gm
16	Filter Paper(circle)	Whatman (40), 110mm	30 unit
17	Filter Paper(rectangular)	Whatman no. 1 & 3	1 unit
18	pH 7.0 and pH 4.0 capsule	Merck	5 unit
19	Respiroscope	Local made	10 unit
20	Stage micrometer	Erma Japan	10 unit
21	Ocular	Erma Japan	10 unit
22	Haemocytometer (with cover slip)	Neubauer improved	10 units
23	EtOH	Bengal Chemical	450ml (20 unit)
24	Orcine power	Merck/Himedia	5gm
25	n-Butanol	Merck	500ml (2 unit)
26	Euparal	Loba Chem	100ml
27	Rectified spirit	Bengal Chemical	450ml (20 unit)
28	Parafin wax	Merck	500gm
29	HCl 0.1(N)	Merck	3 apms (5 unit)
30	Distilled water	Merck	5lit (5 unit)
31	Wash bottle	Polylab	500ml (10 unit)
32	Riccia sporophyte (Working material)	BIOSCO	10 units
33	Marchantia antheridiophore (Working material)	BIOSCO	10 units
34	Marchantia archegoniophore (Working material)	BIOSCO	10 units
35	Funaria gametophore with capsule (Working material)	BIOSCO	10 units
36	Rhizopus (Working material)	BIOSCO	10 units
37	Penicillium (Working material)	BIOSCO	10 units
38	Ascobolus (Working material)	BIOSCO	15 units
39	Agaricus (Working material)	BIOSCO	15 units
40	Cyathus (jar for identification)	BIOSCO	2 unit
41	Selaginella cone (Working material)	BIOSCO	10 vials
42	Selaginella stem (Working material)	BIOSCO	10 vials
43	Equisetum cone (Working material)	BIOSCO	10 vials
44	Marselia sporocarp (Working material)	BIOSCO	10 vials
45	Psilotum (T.S of stem and synangium)-permanent slide	BIOSCO	2 unit
46	Marsilea (T.S of rhizome)- permanent slide	BIOSCO	2 unit

47	Ophioglossum (L.S of spike)- permanent slide	BIOSCO	2 unit
48	Anthoceros (L.S of sporophyte)- permanent slide	BIOSCO	2 unit
49	Sphagnum (L.S of sporophyte)- permanent slide	BIOSCO	2 unit
50	Rhizopus (zygospore)- permanent slide	BIOSCO	2 unit
51	Aspergillus (conidial stage)- permanent slide	BIOSCO	2 unit
52	Fusarium (conidia)- permanent slide	BIOSCO	2 unit
53	Uredial, Telial, Pycnidial and Aecial stages of Puccinia graminis- permanent slide	BIOSCO	2 unit
54	Nostoc (Working Material)	BIOSCO	10 unit
55	Chlamydomonas(Working Material)	BIOSCO	10 unit
56	Oedogonium(Working Material)	BIOSCO	10 unit
57	Coleochaete(Working Material)	BIOSCO	10 unit
58	Chara (Working Material)	BIOSCO	10 unit
59	Vaucheria (Working Material)	BIOSCO	10 unit
60	Ectocarpus (Working Material)	BIOSCO	10 unit
61	Fucus (Working Material)	BIOSCO	10 unit
62	Polysiphonia (Working Material)	BIOSCO	10 unit
63	Prochloron (Working Material)	BIOSCO	10 unit
64	Pellia(Permanent slide)	BIOSCO	1unit
65	Equisetum T.S. of rhizome (permanent slide)	BIOSCO	1unit
66	Pteris (working material)	BIOSCO	10 unit
67	Pteris-young sporophyte(Permanent slide)	BIOSCO	1unit
68	Pteris TS of rhizome(Permanent slide)	BIOSCO	1unit
69	Pteris -prothalus with sex organ(Permanent slide)	BIOSCO	1unit
70	Cooksonia TS of stem(Permanent slide)	BIOSCO	1unit
71	Test tube	Local/borosil	5unit/5unit
72	Graduated test tube	Local/Borosil	5unit
73	Soil Thermometer		1 unit
74	Anemometer		1 unit
75	Psychrometer/Hygrometer		1 unit
76	Rain Gauge		1 unit
77	Lux Meter		1 unit
78	Maximum and Minimum thermometer(Six's thermometer)		1 unit
79	Models of T phage and TMV virus		1 unit
80	Photographs or Line drawings of Lytic and Lysogenic cycle		1 unit
81	Electron Micrographs of bacteria, binary mission, conjugation and root nodule		1 unit
82	Schiff's reagent for epidermal peel of onion	Himedia	500ml

Principal
Sripat Singh College
Jiaganj, Murshidabad

