

BIOTECH TEACHING KITS

AGAROSE GEL ELECTROPHORESIS TEACHING KIT

Agarose gel electrophoresis (AGE) is a simple and effective method of separating and purifying nucleic acid N-A fragments. N-A molecules migrate towards anode in the electric field due to negatively charged phosphate groups along the backbone. Due to similar charges to mass, it is the size of the nucleic acid that determines the ratio of movement.

MATERIALS PROVIDED:

- Agarose
- TAE Buffer (50X)
- Staining Dye
- Gel Loading Dye
- Standard DNA
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
MSS 9/A	Agarose Gel Electrophoresis Teaching Kit	5	2000.00
MSS 9/B	Agarose Gel Electrophoresis Teaching Kit	10	3500.00
MSS 9/C	Agarose Gel Electrophoresis Teaching Kit With Submarine electrophoresis and Mini power pack	5	5800.00

PLASMID DNA EXTRACTION TEACHING KIT

Plasmid preparation teaching kit deals with the mini preparation of plasmid by alkali lysis method and enables the user to visualize the plasmid by agarose gel electrophoresis.

MATERIALS PROVIDED:

- Ampicillin
- *E.coli* Host
- Control DNA
- RNase A
- Solution I, II, III, IV & V
- TE Buffer
- LB Broth
- Agar
- Agarose
- Staining Dye.
- Gel loading dye
- 50X TAE Buffer
- 1.5ml vials
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
MSS 15/A	Plasmid DNA Extraction Teaching Kit	5	3400.00
MSS 15/B	Plasmid DNA Extraction Teaching Kit	10	6000.00
MSS 15/D	Plasmid DNA Extraction Teaching Kit	20	8000.00
MSS 15/C	Plasmid DNA Extraction Teaching Kit with Mini Submarine electrophoresis and Mini power pack	5	8000.00

GENOMIC DNA EXTRACTION TEACHING KIT FROM BACTERIA

The kit provides the user "Hands-on" experience on Genomic DNA extraction from bacteria.

MATERIALS PROVIDED:

- *E.coli* Host
- Control DNA
- Solution A, B, C, & D
- TE buffer
- Agarose
- Staining Dye
- Gel loading dye
- 50X TAE Buffer
- 1.5 ml vials
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
MSS 12/A	Genomic DNA Extraction Teaching Kit from Bacteria	10	2800.00
MSS 12/B	Genomic DNA Extraction Teaching Kit from Bacteria	20	4300.00
MSS 12/C	Genomic DNA Extraction Teaching Kit from Bacteria With Mini Submarine electrophoresis and Mini power pack	10	6500.00

GENOMIC DNA EXTRACTION TEACHING KIT FROM YEAST

The kit provides the user "Hands-on" experience on Genomic DNA extraction from Yeast.

MATERIALS PROVIDED:

- Yeast pellets
- Control DNA
- Solution A, B, C, D & E
- TE buffer
- Agarose
- Staining Dye
- Gel loading dye
- 50X TAE Buffer
- 1.5 ml vials
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
MSS 14/A	Genomic DNA Extraction Teaching Kit from Yeast	10	2800.00
MSS 14/B	Genomic DNA Extraction Teaching Kit from Yeast	20	4300.00
MSS 14/C	Genomic DNA Extraction Teaching Kit from Yeast With Mini Submarine electrophoresis and Mini power pack	10	6500.00

GENOMIC DNA EXTRACTION TEACHING KIT FROM BLOOD

The kit provides the user with all chemicals and protocol for DNA extraction from Blood sample.

MATERIALS PROVIDED:

- Solution A, B, C, D & E
- TE buffer
- Control DNA
- Agarose
- 50X TAE Buffer
- Gel Loading Dye
- 1.5 ml vials
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
MSS 11/A	Genomic DNA Extraction Teaching Kit From Blood	10	3000.00
MSS 11/B	Genomic DNA Extraction Teaching Kit From Blood	20	4800.00
MSS 11/C	Genomic DNA Extraction Teaching Kit From Blood With Mini Submarine electrophoresis and Mini power pack	10	6800.00

GENOMIC DNA EXTRACTION TEACHING KIT FROM PLANT

This kit provides the user "Hands on" experience on Genomic DNA extraction from leaves.

MATERIALS PROVIDED:

- Solution A, B, C, D & E
- TE buffer
- Control DNA
- Agarose
- Staining Dye
- Gel loading dye
- 50X TAE Buffer
- 1.5 ml vials
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
MSS 13/A	Genomic DNA Extraction Teaching Kit From Plant	10	2600.00
MSS 13/C	Genomic DNA Extraction Teaching Kit From Plant With Mini Submarine electrophoresis and Mini power pack	10	6400.00

TOTAL RNA EXTRACTION TEACHING KIT

Specially designed for the rapid extraction of Total RNA from yeast cells. This kit uses a modified guanidine thiocyanate method.

MATERIALS PROVIDED:

- Solution A, B, C, & D
- TE buffer
- Agarose
- 50X TAE Buffer
- Loading Dye
- Staining Dye
- Yeast pellets
- 1.5 ml vials
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
LT 1/A	Total RNA Extraction Teaching Kit	5	
LT 1/C	Total RNA Extraction Teaching Kit With Mini Submarine electrophoresis and Mini power pack	5	

PCR TEACHING KIT

DNA amplification (Polymerase Chain Reaction) employing Taq DNA polymerase is the technique used in various applications.

MATERIALS PROVIDED:

- Taq DNA Polymerase
- Assay Buffer
- dNTPs Mix
- 100bp DNA ladder
- Template DNA
- Forward Primer
- Reverse Primer
- MgCl₂
- Mol. Bio Grade Water
- Mineral Oil
- Agarose
- Gel loading dye
- 50x TAE Buffer
- PCR Tubes
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
MSS 18/A	PCR Teaching Kit	5	
MSS 18/C	PCR Teaching Kit with Mini Submarine electrophoresis and Mini power pack	5	

DNA EXTRACTION FROM AGAROSE GEL TEACHING KIT

In general the silica gel is used as the binding material to elute out the DNA from the Agarose gel. The silica present in the Binding buffer is mixed up with the excised pieces of the gel containing the desired DNA band and then the same is treated with solubilizing buffer. Wash buffer removes the salts and other impurities. Finally the DNA is eluted with TE buffer and used for further techniques.

MATERIALS PROVIDED:

- Binding Buffer
- Solubilizing buffer
- Wash buffer A
- Wash buffer B
- TE buffer
- 1.5ml vials
- Sample DNA
- Gel loading dye
- DNA marker
- 50X TAE buffer
- Agarose
- Staining Dye
- Instruction manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
MSS 17/A	DNA Elution from Agarose gel teaching kit	5	2700.00
MSS 17/B	DNA Elution from Agarose gel teaching kit	10	5000.00
MSS 17/C	DNA Elution from Agarose gel teaching kit With Mini submarine electrophoresis and mini power pack	5	6500.00

RESTRICTION DIGESTION TEACHING KIT

The Kit demonstrates the function of restriction enzymes, which cleave the DNA at specific sites. With the help of this kit one can carryout restriction digestion and find out the molecular weights of different DNA fragments by running a standard marker on Agarose Gel.

MATERIALS PROVIDED:

- Assay Buffer
- Lambda DNA
- Restriction enzymes
- Lambda DNA *Hind*III diest
- Mol. Bio Grade Water
- Agarose
- Staining dye
- Gel loading dye
- 50X TAE
- 0.5 ml vials
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
MSS 16/A	Restriction Digestion Teaching Kit	5	3100.00
MSS 16/C	Restriction Digestion Teaching Kit With Mini Submarine electrophoresis and Mini power pack	5	6900.00

LIGATION TEACHING KIT

Ligation is the process of joining of DNA fragments that is restricted by endonucleases. This kit demonstrates the ligation of *Hind*III digested Lambda DNA with T4 DNA Ligase. The ligated DNA and the digested DNA is compared by Agarose Gel Electrophoresis.

MATERIALS PROVIDED:

- Lambda DNA *Hind*III Digest
- T4 DNA Ligase
- Ligation Buffer
- Mol. Bio Grade Water
- Ligated DNA control
- Agarose
- Gel Loading Dye
- Staining Dye
- 50X TAE Buffer
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
LT 2/A	Ligation Teaching Kit	5	2200.00
LT 2/B	Ligation Teaching Kit	10	4000.00
LT 2/C	Ligation Teaching Kit With Mini Submarine electrophoresis and Mini power pack	5	6000.00

GFP CLONING TEACHING KIT

The GFP Cloning teaching kit enables the Student to clone the GFP (Green Fluorescent Protein) gene into Vector. Resulting clones after transformation into *E.coli* are visualized as glowing green colonies under UV light.

MATERIALS PROVIDED:

- T₄ DNA Ligase
- Ligation Assay Buffer
- Control DNA
- Insert
- Vector
- Mol. Bio Grade Water
- Solution A
- Host
- Agar
- Ampicillin
- LB Broth
- 1.5 ml vials
- Instruction Manual.

Ordering Information:

Cat #	Product	Size (Exp)	Price(Rs)
MSS 22	GFP Cloning Teaching Kit	5	4800.00

DNA MOLECULAR SIZE DETERMINATION TEACHING KIT

This kit demonstrates the molecular size determination of a linear DNA molecule by agarose gel electrophoresis. Standard molecular weight DNA marker and test samples are run on agarose gel and the relative distance migrated are measured and plotted on the graph. The size of unknown test samples can be calculated from the group.

MATERIALS PROVIDED:

- DNA ladder
- Test samples
- Agarose
- Staining dye
- 50X TAE
- Gel Loading Dye
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price(Rs)
LT 3/A	DNA Molecular Size Determination Teaching Kit	5	3800.00
LT 3/C	DNA Molecular Size Determination Teaching Kit With Mini Submarine electrophoresis and Mini power pack	5	7600.00

PHAGE TITRATION TEACHING KIT

Phage Titration teaching kit demonstrates the lysing property of phage on a specific host. The kit enables the user to do titration and visualize the phage as plaques.

MATERIALS PROVIDED:

- Host
- Phage Lysate
- SM Buffer
- Agar
- LB broth
- Maltose
- MgSO₄
- 1.5ml Vials
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price(Rs)
LT 4/A	Phage Titration Teaching Kit	5	3200.00
LT 4/B	Phage Titration Teaching Kit	20	8600.0

TRANSFORMATION TEACHING KIT

The kit demonstrates preparation of competent cells by CaCl_2 method and its transformation with plasmid DNA. Plasmid DNA is provided which helps to understanding α complementation and blue white screening.

MATERIALS PROVIDED:

- Ampicillin
- Host
- Solution A
- IPTG
- X-Gal
- Plasmid DNA
- Agar
- LB Broth
- 1.5ml Vials
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
MSS 19	Transformation Teaching Kit	5	4000.00

BACTERIAL CONJUGATION TEACHING KIT

The kit demonstrates the transfer of genes between bacterial cells (donor and recipient) that are in physical contact with one another.

MATERIALS PROVIDED:

- Strain I (donor)
- Strain II (recipient)
- Antibiotics
- LB Broth medium
- Agar
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
LT 5	Bacterial Conjugation Teaching Kit	5	3900.00

BACTERIAL GROWTH CURVE TEACHING KIT

This kit demonstrates the graphical representation of the growth (population changes) of bacteria in culture medium.

MATERIALS PROVIDED:

- *E.coli* strain
- Agar
- LB Broth
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
LT 6	Bacterial Growth Curve Teaching Kit	5	2500.00

BACTERIAL ANTIBIOTIC SENSITIVITY TEACHING KIT

This kit demonstrates the sensitivity of an organism against different antibiotics by using Kirby Bauer method.

MATERIALS PROVIDED:

- Antibiotics Discs
- *E.coli* strain
- Muller Hinton medium
- Cotton swabs
- Instruction manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
LT 7	Bacterial Antibiotic Sensitivity Teaching Kit	5	4500.00

ISOLATION AND IDENTIFICATION OF SOIL BACTERIA TEACHING KIT

In natural habitats, microorganisms usually grow in complex, mixed populations having several species like viruses, mycoplasma, algae, fungi (Yeast and molds), bacteria etc.,. To understand the role of these microorganisms in an ecosystem, microbiologists study them in pure culture. This kit enable the students to learn microbial techniques involved in isolating bacteria from soil and their colony characteristics. The isolated bacteria are then identified by Gram staining method.

MATERIALS PROVIDED:

- Gram staining Reagents.
- LB Broth
- Microscopic slides
- 5 Reference strains
- Instruction Manual.

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
LT 8	Isolation and Identification of Soil Bacteria Teaching Kit	5	6000.00

SOUTHERN BLOTTING TEACHING KIT

This kit demonstrates the transfer of DNA from Agarose gel to Nylon membrane. The transfer results in the immobilization of DNA fragments on the membrane. For efficient transfer the DNA in Agarose gel is pretreated with the provided denaturation and neutralization buffers. The immobilized DNA can be detected by UV transilluminator.

MATERIALS PROVIDED:

- Solution A
- Solution B
- 20X SSC buffer
- Nylon membrane
- Whatman filter papers
- Agarose
- Gel loading dye
- Staining Dye
- 50X TAE buffer
- Instruction manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
MSS 21/A	Southern Blotting Teaching Kit	5	5000.00
MSS 21/C	Southern Blotting Teaching Kit With Mini submarine electrophoresis and mini power pack	5	8800.00

WESTERN BLOTTING TEACHING KIT

This kit demonstrates the transfer of proteins from SDS-PAGE gel to nitrocellulose membrane. The primary antibody specifically binds with the proteins in the membrane that is already blocked with the Blocking buffer. The conjugate (secondary antibody and the enzyme) forms a complex with the primary antibody, which is finally detected by the color formation in the membrane.

MATERIALS PROVIDED:

- SDS PAGE Reagents
- Nitrocellulose membrane
- Transfer buffer
- 10X TBS
- Blocking buffer
- Antiserum
- Wash buffer
- Conjugate
- Substrate buffer
- Chromogenic buffer
- Stop solution
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
ISS 8/A	Western Blotting Teaching Kit	5	4700.00
ISS 8/C	Western Blotting Teaching Kit With Mini Vertical & Blotting System with Mini power pack	5	17000.00

DNA FINGER PRINTING TEACHING KIT BY USING RFLP

Restriction Fragment Length
Polymorphism (RFLP) is a technique in which organisms may be differentiated by analysis of patterns derived from cleavage of their DNA. If two organisms differ in the distance between sites of cleavage of a particular restriction endonuclease, the length of the fragments produced will differ when the DNA is digested with a restriction enzyme. The similarity of the patterns generated can be used to differentiate species (and even strains) from one another.

MATERIALS PROVIDED:

- DNA samples
- Restriction Enzyme
- Digestion Buffer
- Molecular Biology Grade Water
- Control Samples
- Agarose
- Ethidium Bromide
- DNA ladder
- Gel Loading Dye
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
LT13	DNA Finger Printing Teaching Kit By Using RFLP	5	5000.00
LT13	DNA Finger Printing Teaching Kit (By Using RFLP Technique) With Mini submarine electrophoresis and mini power pack	5	5000.00

SINGLE NUCLEOTIDE POLYMORPHISM (SNP) TEACHING KIT

This is an electrophoretic separation of single strands in the native PAGE. In SSCP under denaturing conditions the single strand DNA forms a folded structure, which depends on the nucleotide sequence of the same. Due to conformational change in the denatured DNA the mobility of the ss-DNA varies when compared to non-denatured ds-DNA. This change might be a variation/polymorphism/mutation in the ss-DNA.

MATERIALS PROVIDED:

- Agarose
- Acrylamide-Bisacrylamide mix
- APS
- TEMED
- Running buffer 10X TBE
- Loading dye
- Sample DNA
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
LT 11/A	SNP Teaching Kit	5	5100.00
LT 11/A	SNP Teaching Kit with Mini Vertical gel electrophoresis and Mini power pack	5	9100.00

SDS-PAGE TEACHING KIT

The technique of Polyacrylamide gel electrophoresis (PAGE) is most widely used technique. Reduced or denatured PAGE generally known as SDS- PAGE is useful in studying a known or unknown, simple or complex and a single or a mixture of proteins for purity and molecular size. The technique is also useful to get similar information on polypeptides.

MATERIALS PROVIDED:

- SDS Separating gel mix
- SDS Stacking gel mix
- Ammonium persulphate
- TEMED
- Reservoir Buffer
- Sample loading buffer
- Protein marker
- Protein samples
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
MSS10/A	SDS-PAGE Teaching Kit	10	3100.00
MSS10/B	SDS-PAGE Teaching Kit	20	4800.00
MSS10/C	SDS-PAGE Teaching Kit With Mini vertical electrophoresis and mini power pack	10	7600.00

SILVER STAINING TEACHING KIT

This kit demonstrates the staining of Polyacrylamide gel using Silver Nitrate solution. The color develops is due to the reduction of silver ions that are bound to the chains of amino acids in the polypeptide present in the gel. Even one nano-gram of polypeptide can be detected by this staining method.

MATERIALS PROVIDED:

- Silver Nitrate solution
- Fixative
- Sodium Carbonate
- Cross-linking solution
- Developer
- Formaldehyde
- Stop solution
- Instruction manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
LT12	Silver Staining Teaching Kit	10	3600.00

PROTEIN ESTIMATION TEACHING KIT

Protein estimation is a routinely used technique in most of the biochemical analysis. This kit gives hands on experience to the students to three most commonly used methods for protein estimation.

MATERIALS PROVIDED:

- Protein standard
- Test samples
- Bradford reagent
- Biuret reagent
- Biuret reagent diluent
- Copper sulphate solution
- Alkaline tartarate solution
- Folin reagent.
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
LT13	Protein Estimation Teaching Kit	3 x 5	1900.00

OUCHTERLONY DOUBLE DIFFUSION (ODD) TEACHING KIT FOR ANTIGEN ANTIBODY PATTERNS

This kit demonstrates the method by which the degree of similarity of the antigens can be assessed. In this test, different antigenic preparations, each containing single antigenic species are allowed to diffuse from separate wells against the antiserum. Depending on the degree of similarity between the antigens, different geometrical patterns are produced between the antigens and antiserum wells. By observing the patterns produced, the similarity between the antigens is assessed.

MATERIALS PROVIDED:

- Agarose
- Assay Buffer
- Antisera
- Test Antigens
- Glass slide
- Gel punch
- Template
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
ISS 2/A	Ouchterlony Double Diffusion (ODD) Teaching Kit For Antigen Antibody Patterns	10	1600.00

OUCHTERLONY DOUBLE DIFFUSION (ODD) TEACHING KIT FOR ANTIBODY TITRATIONS

This kit demonstrates the widely used screening test in antibody production, named after its inventor Ouchterlony. The ODD test is based on the formation of antigen-antibody precipitin line in agar-gel. The test is useful in screening antigen and antibody.

A typical antibody titration is observed using this kit. Antibody dilutions tested are 1-1:32 placed in the wells in clockwise direction from Ab-1 well. The intensity of precipitin line decreases with the increases in antibody dilution.

MATERIALS PROVIDED:

- Agarose
- Assay Buffer
- Antisera
- Test Antigens
- Glass slides
- Gel punch
- Template
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
ISS 1	Ouchterlony Double Diffusion (ODD) Teaching Kit For Antigen Antibody Titration	10	1100.00

RADIAL IMMUNO DIFFUSION (RID) TEACHING KIT

RID teaching kit is based on the formation of antigen-antibody precipitation ring around the well in agarose gel. This test is used for estimating antigen or antibody concentrations in the given samples.

MATERIALS PROVIDED:

- Agarose
- Assay Buffer
- Antiserum
- Standard Antigens
- Test Antigens
- Glass slide
- Gel punch
- Template
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
ISS 3	Radial Immuno Diffusion (RID) Teaching Kit	10	1100.00

COUNTER CURRENT IMMUNOELECTROPHORESIS (CIE) TEACHING KIT

The technique exploits the fact that during electrophoresis, antibodies tend to migrate towards cathode while most antigenic proteins proceed towards anode. As a result, antigen and antibodies cross each other to form a precipitin line in a matter of few minutes.

MATERIALS PROVIDED:

- Agarose
- Electrophoresis Buffer
- Antigens
- Positive control
- Negative control
- Glass slides
- Gel punch
- Template
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
ISS 6/A	Counter Current Immunoelectrophoresis (CIE) Teaching Kit	10	1500.00
ISS 6/C	Counter Current Immunoelectrophoresis (CIE) Teaching Kit With Immuno electrophoresis and mini power pack	10	5250.00

IMMUNOELECTROPHORESIS (IEP) TEACHING KIT

Immuno-electrophoresis (Gaber Immuno-electrophoresis) is a combination of electrophoretic separation of complex antigen mixture such as serum and then immunodiffusion of antibody in gel to form antigen-antibody precipitin line. This technique is used to study complex proteins and homology of their antibody.

MATERIALS PROVIDED:

- Agarose
- Electrophoresis Buffer
- Antigens
- Antibodies
- Glass slides
- Gel punch
- Template
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
ISS 4/A	Immuno-electrophoresis (IEP) Teaching Kit	5	2200.00
ISS 4/C	Immuno-electrophoresis (IEP) Teaching Kit With Immuno electrophoresis and mini power pack	5	5950.00

ROCKET IMMUNOELECTROPHORESIS (RIE) TEACHING KIT

Rocket Immuno-electrophoresis is a variant of Immuno-electrophoresis technique in line with radial immunodiffusion technique. In this technique antigen-antibody precipitin formed in the gel appears in the shape of a rocket. The rocket height gives a measure of antigen concentration.

MATERIALS PROVIDED:

- Agarose
- Electrophoresis Buffer
- Standard Antigens
- Antiserum
- Test Antigen
- Glass slide
- Gel punch
- Template
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
ISS 5/A	Rocket Immuno-electrophoresis (RIE) Teaching Kit	10	2600.00
ISS 5/A	Rocket Immuno-electrophoresis (RIE) Teaching Kit With Immuno electrophoresis and mini power pack	10	6350.00

LATEX AGGLUTINATION TEST TEACHING KIT

This kit demonstrates the detection of antigen or antibody by using specific antigen or antibody coated latex beads.

MATERIALS PROVIDED:

- Antigen
- Latex beads
- PBS
- Glass slide
- Plastic Sticks
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
LT 51	Latex Agglutination Test Teaching Kit	10	2000.00

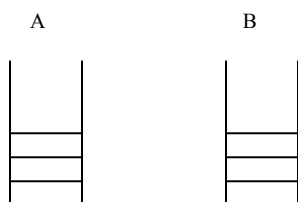
DOT ELISA TEACHING KIT

Dot ELISA kit enables the demonstration of direct sandwich assay for an antigen. The test is developed using two antibodies to an antigen. One of the antibodies is immobilized on a strip and the other linked with an enzyme. The assay result is interpreted by viewing the color developed at the final step.

A typical result seen using the kit is as follows;

- a- Sample containing the antigen
- b- Sample without the antigen

Appearance of results:



MATERIALS PROVIDED:

- Assay Buffer
- Dot ELISA Strip
- Antibody-HRP Conjugate
- TMB/H₂O₂
- Test serum sample
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
ISS 7	Dot ELISA Teaching Kit	10	1300.00

ANTIBODY CAPTURE ELISA TEACHING KIT

The initial step involves the coating of polystyrene wells with antigen by passive absorption. Test antiserum is added and allowed to incubate. If the antibodies in the serum are homologous, they will bind to the antigen. Enzyme conjugate are added to the system that will link to the antibody-antigen complexes. The color change indicates the presence of the specific antibody.

MATERIALS PROVIDED:

- Antigen
- Antibody
- Samples
- Coating buffer
- Washing buffer
- Enzyme conjugate
- Substrate
- Substrate buffer
- H₂O₂
- Phosphate Buffer Saline
- Saline
- ELISA strips
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price(Rs)
LT 52	Antibody Capture ELISA Test Teaching Kit	5	2500.00

ANTIGEN CAPTURE ELISA TEACHING KIT

The kit demonstrates the coating of polystyrene wells with antibody. Test antigen is added and allowed to incubate. If the antigen is specific, they will bind to the coated antibody. Enzyme conjugate are added to the system that will link to the antibody-antigen complexes. The color change indicates the presence of the specific antigen.

MATERIALS PROVIDED:

- Antibody
- Antigen
- Samples
- Coating buffer
- Washing buffer
- Enzyme conjugate
- Substrate
- Substrate buffer
- H₂O₂
- Phosphate Buffer Saline
- Saline
- ELISA strips
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
LT 53	Antigen Capture ELISA Test Teaching Kit	5	2500.00

CHROMATOGRAPHY TEACHING KIT

ION EXCHANGE CHROMATOGRAPHY TEACHING KIT

Ion exchange chromatography is a technique in which the biomolecules are isolated on the basis of its interaction due to the charge acquired in particular medium with charged group on solid support. The solid support and the medium are selected which enables the binding of biomolecules of interest.

MATERIALS PROVIDED:

- Ion Exchange column
- CM cellulose
- Equilibration buffer
- Wash buffer
- Elution buffer
- Sodium chloride
- Phosphate buffer
- Neutralizing solution
- Lysozyme standard
- *Micrococcus luteus*
- Tube for mixing.

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
LT91	Ion Exchange Chromatography Teaching Kit	5	3500.00

GEL FILTRATION CHROMATOGRAPHY TEACHING KIT

Gel filtration is also known as size exclusion chromatography is widely used in purification of proteins and biomolecules on the basis of their size.

The kit gives an exposure to this technique, terminology and parameters used. It also gives hands on experience of a prototype purification of biomolecules.

MATERIALS PROVIDED:

- Gel filtration column
- Gel filtration buffer
- Sample
- Elution buffer
- Instruction manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
LT92	Gel Filtration Chromatography Teaching Kit	5	2600.00

AFFINITY CHROMATOGRAPHY TEACHING KIT

Affinity chromatography is a technique, which enables purification of molecules on the basis of their biological function. Almost every laboratory concerned with the purification of biological substances use this technique.

MATERIALS PROVIDED:

- ABTS
- Affinity Column
- Crude sample
- Sodium acetate buffer
- Elution buffer
- Hydrogen peroxide
- Protein standard
- Solutions I, II and III
- Concanavalin A- Agarose suspension
- Instruction manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
LT93	Affinity Chromatography Teaching Kit	5	3500.00

SEROLOGY KITS

BLOOD GROUPING TEST TEACHING KIT

Blood group is the quick procedure, which works in the principle of agglutination that occurs immediately in the presence of specific antisera against the surface antigen of RBC.

MATERIALS PROVIDED:

- Antisera A, B & D
- Applicator sticks
- Disposable lancets
- Glass slide
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
LT76	Blood Grouping Test Teaching Kit	3 X 10 ml	600.00

WIDAL TEST TEACHING KIT

Widal test is highly applicable for the diagnosis of enteric fever like typhoid, which is caused by mainly by *Salmonella typhi* and *Salmonella paratyphi*. In this test the given Salmonella antigens used to detect, identify and quantify the specific antibodies present in the patients serum.

MATERIALS PROVIDED:

- Salmonella antigens O, H, B (H), A(H).
- Marked Glass slide
- Positive and negative controls
- Disposable plastic droppers
- Applicator sticks
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
LT77	Widal Test Teaching Kit	4 X 6 ml	750.00

VDRL TEST TEACHING KIT

Venereal Disease Research Laboratory slide test is based on the flocculation between the given specific antibodies against reaginic antigens in syphilitic infected individuals. This test is simple and requires less time and can be used for diagnosis of syphilis.

MATERIALS PROVIDED:

- VDRL antigen
- Positive & Negative controls
- Applicator sticks
- Disposable plastic dropper
- Glass slide
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
LT78	VDRL Test Teaching Kit	50 test	425.00

ANTI STREPTOLYSIN-O - LATEX TEST (ASO TEST) TEACHING KIT

This test is used to detect the ASO antibodies present in the streptococcal infected individuals by both qualitative and quantitative methods. The elevated ASO titer level more than 200 IU/ml is associated with acute streptococcal infections leads to Rheumatoid fever and Glomerular nephritis.

MATERIALS PROVIDED:

- ASO latex reagent
- Positive and Negative controls
- Buffer diluent
- Applicator sticks
- Glass slides
- Disposable plastic dropper
- Instruction Manual

Ordering Information:

Cat #	Product	Size (EXP)	Price (Rs)
LT79	ASO Test Teaching Kit	25 test	1230.00

RPR TEST TEACHING KIT

Rapid Plasma Reagin test is a non-treponemal test for serological diagnosis of syphilis. The specificity of the test is based on the carbon containing cardiolipin antigen detects the reagin antibodies present in the serum of syphilitic individuals.

MATERIALS PROVIDED:

- RPR antigen
- Positive & negative controls
- Applicator sticks
- Disposable plastic dropper
- Glass slide
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
LT79	RPR Test Teaching Kit	50 test	250.00

CRP TEST TEACHING KIT

This test is based on the agglutination between Carbohydrate reactive proteins. CRP is an acute phases protein, which is normally present as 5µg/ml in the healthy persons. During an inflammatory response or infection the level may increased to 6µg/ml. This is screening test for various types of disease namely acute myocardial infarctions, Rheumatoid arthritis, bacterial & viral infections

MATERIALS PROVIDED:

- Latex CRP reagent
- Positive & negative controls
- Applicator sticks
- Disposable plastic dropper
- Glass slide
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
LT80	CPR Test Teaching Kit	25 test	750.00

PREGNANCY TEST TEACHING KIT

Pregnancy test is based on the Human Chorionic Gonadotrophin (HCG) hormone secreted by trophoblastic tissue and eventually excreted in the urine of pregnant women. This test uses high affinity monoclonal antibody, which is specific to β -Human Chorionic Gonadotrophin hormone. The absence of agglutination is the confirmation to this test

MATERIALS PROVIDED:

- Latex (polystyrene) coated with HCG
- Anti HCG hormone
- Positive & Negative control
- Glass slide.
- Applicator sticks
- Instruction Manual

Ordering Information:

Cat #	Product	Size (Exp)	Price (Rs)
LT81	Pregnancy Test Teaching Kit	25 test	320.00

GENERAL CONSUMBLE CHEMICALS**PCR CHEMICALS**

S.NO	CAT.NO	NAME OF THE MATERIALS	QTY	PRICE
1.	LT101/a	Taq DNA Polymerase	100 U	1000.00
	LT101/b		250 U	2500.00
2.	LT102/a	dNTPs (10mM)	100 ul	750.00
3.	LT102/b		200ul	1050.00
4.	LT104/a	25 mM MgCl ₂	1 ml	550.00
	LT104/b		5 ml	1100.00
5.	LT105/a	Mineral Oil	5 ml	350.00
	LT105/b		10 ml	700.00
6.	LT106	Ultra pure PCR grade water	50 ml	600.00

CHEMICALS AND REAGENTS

S.NO	CAT.NO	NAME OF THE MATERIALS	QTY	PRICE
7.	LT107/a	Agarose Low EEO	25g	1250.00
	LT107/b		100g	4500.00
8.	LT108/a	Agarose Medium EEO	25g	1100.00
	LT108/b		100g	4400.00
9.	LT109/a	Agarose High EEO	25g	1200.00
	LT109/b		100g	4600.00

S.NO	CAT.NO	NAME OF THE MATERIALS	QTY	PRICE
10.	LT110	Albumin Bovine	1g	800.00
11.	LT111	Tris buffer	100 g	1200.00
12.	LT112/a	CTAB Powder	50g	1900.00
13.	LT113/a	Cesium chloride	5 g	650.00
	LT113/b		10g	1300.00
14.	LT114	DAB Tablet	10 T	4500.00
15.	LT115/a	DEPC	2 g	1750.00
16.	LT116/a	DTT	1 g	1000.00
17.	LT116/b		5 g	4200.00
18.	LT117	PIPES	50 g	3700.00
19.	LT118/a	HEPES	25g	1900.00
20.	LT119/a	pH Standard - pH 10	100 ml	800.00
	LT120/a	pH Standard - pH 7	100 ml	800.00
	LT121/a	pH Standard - pH4	100 ml	800.00
21.	LT122/a	Phenol red	5g	1500.00
	LT122/b		10g	2800.00
22.	LT123/a	Bromophenol blue	5g	1500.00
	LT123/b		10g	2800.00
23.	LT124/a	Coomassie Brilliant Blue G250	5 g	2000.00
	LT124/b		10g	3800.00
24.	LT125/a	Coomassie Brilliant Blue R250	5 g	2000.00
	LT125/b		10g	3800.00
25.	LT127	Brilliant Blue G 2X	500ml	1300.00
26.	LT128	Amido Black 2X	250ml	700.00
27.	LT135/a	IPTG	500mg	1450.00
	LT135/b		1g	2450.00
28.	LT136/a	X-Gal	50mg	1000.00
29.	LT137	Tween 20	100ml	1200.00
30.	LT138	Ficoll	10 g	2300.00
31.	LT140	0.5 M EDTA	50 ml	500.00
32.	LT141	Sodium acetate 3M	100 ml	1300.00
33.	LT142	Water Saturated Phenol	50 ml	1000.00
34.	LT139	Tris Saturated Phenol	50 ml	1000.00

ELECTROPHORESIS CHEMICALS AND REAGENTS

35.	LT143	10X TE Buffer (pH 8.0)	100 ml	1000.00
36.	LT144	50X TAE Buffer	200ml	1200.00
37.	LT145	10X TBE Buffer	200ml	900.00
38.	LT146	6X Gel loading dye	6x1ml	1000.00
39.	LT147/a	Ethidium Bromide	25mg	750.00
	LT147/b		100mg	2000.00
40.	LT148	Ethidium Bromide (10mg/ml)	1ml	1000.00
41.	LT111/a	Tris	100 g	1200.00
42.	LT129	Tris pH (6.8)	100 ml	900.00
43.	LT130	Tris pH (8.8)	100 ml	1000.00
44.	LT103/a	Sodium Dodecyl Sulphate	100 g	200.00
45.	LT103/b		500 g	8500.00
46.	LT149	10% SDS	50ml	700.00
47.	LT131/a	Acrylamide 3X	100g	2000.00
48.	LT131/b		500g	7400.00
49.	LT132	Bis-Acrylamide3X	10g	800.00
50.	LT133	Ammonium persulphate	1g	500.00
51.	LT134	TEMED	5ml	900.00
52.	LT150	10X Tris-Glycine SDS Buffer	1 lit	1550.00
53.	LT151	10X Tris-Glycine Buffer (Native SDS PAGE)	1 lit	1550.00
54.	LT152	5X Tris-Borate EDTA Buffer	1 lit	1300.00
55.	LT153	Sample buffer for SDS PAGE 5X	5x2ml	1000.00
56.	LT154	Sample buffer for Native PAGE 5X	5x2ml	1000.00
57.	LT155/a-1	30% Acrylamide –bis-Acrylamide solution	100ml	1200.00
	LT155/a-2		500ml	4750.00
	LT155/b-1	Ratio 29:1	100ml	1200.00
	LT155/b-2	Ratio 29:1	500ml	4200.00
58.	LT156	Hybridization solution 2X	50 ml	4000.00
59.	LT157	2X Prehybridization solution	50 ml	4000.00

MODIFYING ENZYMES

S.NO	CAT.NO	NAME OF THE MATERIALS	QTY	PRICE
	LT158	RNAse A	10mg	1000.00
	LT159	DNAse I (RNAse free)	1000U	3000.00
	LT160	DNAse I	10 mg	1200.00
	LT161	DNAse II	1000 U	6500.00
	LT162	Proteinase K	25 mg	1500.00
	LT163	Alkaline Phosphatase	100 U	1000.00
	LT164	Lysozyme	500 mg	1100.00
	LT165/a	T4 DNA Ligase	2000U	1200.00
	LT165/b		10,000U	3400.00
	LT166/a	<i>Bam</i> HI	2000U	750.00
	LT166/b		4000 U	1200.00
	LT167/a	<i>Eco</i> RI	4000 U	750.00
	LT167/b		10,000U	1500.00
	LT168/a	<i>Hind</i> III	4000U	1000.00
	LT168/b		10,000U	1800.00
	LT169/a	<i>Alu</i> I	100U	1000.00
	LT169/b		250U	2300.00
	LT170	<i>Hae</i> III	1000 U	1000.00
	LT171	Klenow Fragment (DNA Polymerase)	50 U	1300.00

STADARD DNA AND PLASMIDS

	LT172	<i>E.coli</i> Genomic DNA	25µg	1500.00
	LT173	<i>Bacillus subtilis</i> Genomic DNA	25µg	1500.00
	LT174	Yeast Genomic DNA	25µg	1500.00
	LT175	Calf Thymus DNA	25µg	1300.00
	LT176/a	pUC18	10µg	1200.00
	LT176/b		50µg	2900.00
	LT177/a	pUC19	10µg	1200.00
	LT177/b		50µg	2900.00
	LT178/a	pBR322	10µg	1200.00
	LT178/b		50µg	3000.00
	LT179/a	Lambda DNA	60µg	1100.00
	LT179/b		200µg	2500.00

MARKERS DNA/ROTEIN

S.NO	CAT.NO	NAME OF THE MATERIALS	QTY	PRICE
60.	LT180/a	100 bp DNA Marker	10 ug	1100.00
	LT180/b		50 ug	3200.00
61.	LT181/a	500bp DNA Marker	10 ug	1100.00
	LT181/b		50 ug	3000.00
62.	LT182/a	1 kb DNA Marker	10 ug	1100.00
	LT182/b		50 ug	3000.00
63.	LT183	Super Mix DNA Marker	10 ug	1100.00
64.	LT184/a	Lambda <i>Hind</i> III digest (100 Run)	50 ug	1200.00
65.	LT184/b		100 ug	2000.00
66.	LT185/a	Lambda <i>Eco</i> RI digest	50 ug	1200.00
	LT185/b		100 ug	2000.00
67.	68.LT186/a	Broad Range Protein Marker	250 ul	1750.00
	69.LT186/b		500 ul	3200.00
70.	71.LT187/a	High Range Protein Marker	250 ul	1300.00
72.	LT187/b		500 ul	2250.00
73.	LT188/a	Medium Range Protein Marker	250 ul	1100.00
74.	LT188/b		500 ul	1950.00
75.	LT189/a	Low Range Protein Marker	250 ul	1300.00
76.	LT189/b		500 ul	2200.00

IMMUNOGLOBULINS

CAT.NO	NAME OF THE MATERIALS	QTY	PRICE
LT190	Human IgG	10 mg	1800.00
LT191	Mouse IgG	1 mg	1800.00
LT192	Rabbit IgG	10 mg	1800.00
LT193/a	Rabbit anti Goat IgG	2 ml	900.00
LT193/b		5ml	1900.00
LT194/a	Rabbit anti Human IgG	2 ml	900.00
LT194/b		5ml	1900.00
LT195/a	Goat anti Human IgG	1 ml	900.00
LT195/b		5ml	2500.00

TISSUE CULTURE MEDIA

CAT.NO	NAME OF THE MATERIALS	QTY	PRICE
TCSS-1	Plant Tissue Culture Media	1 Lit	200.00
TCSS-2	Animal Tissue Culture Media	1 Lit	500.00

CULTURES

CAT.NO	NAME OF THE MATERIALS	QTY	PRICE
CSS-1	*Bacterial Culture	1	100.00
CSS-2	*Fungal Culture	1	100.00

Wide range of Bacterial and Fungal cultures will be supplied on your requirement basis.