Professional in

- **CLS (Molecular Biology Products)**

Composite Lab Line Pvt Ltd

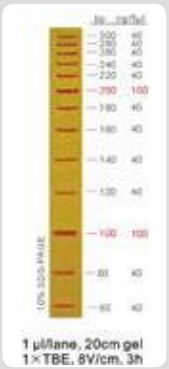
10 bp DNA Ladder

Recommended Loading: 2-5 µl/Lane
Concentration Typical Bands: 100 ng/5µl
Concentration Other Bands: 40 ng/5µl
Advised Electrophoresis Condition: 8 cm, 5% Agarose Gel, 0.5×TBE, 5 V/cm, 1 h
Contents bp: 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290,300
Mix Concentration: 168 ng/µl
Storage: -20°C

Cat No	Product	Size	Price
CLS014-10	10 bp DNA Ladder	500ul	8500.00
CLS014-10	10 bp DNA Ladder	5x500ul	40375.00

20 bp DNA Ladder

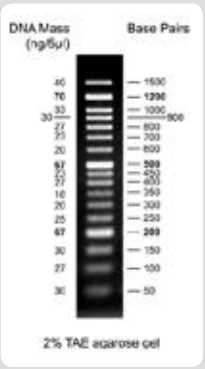
Recommended Loading: 2-5 µl/Lane
Concentration Typical Bands 100 ng/5µl
Concentration Other Bands: 40 ng/5µl
Advised Electrophoresis Condition: 8 cm, 5% Agarose Gel, 0.5×TBE, 5 V/cm, 1 h
Contents bp: 60, 80, 100, 120, 140, 160, 180, 200, 220
240, 260, 280, 300
Mix Concentration: 128 ng/µl
Storage: -20°C



Cat No	Product	Size	Price
CLS014-20	20 bp DNA Ladder	500ul	8500.00
CLS014-20	20 bp DNA Ladder	5x500ul	40375.00

50 bp DNA Ladder

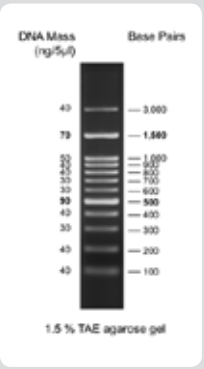
Range: 50-1,500 bp
Number of bands: 17
Concentration: 112 µg/ml
Package: 56ug/500ul
Recommended Load: 5 µl / well
Storage: -20°C
Containing orange G as tracking dyes.



Cat No	Product	Size	Price
CLS012-R500	50 bp DNA Ladder	500ul	6270.00
CLS012-R500	50 bp DNA Ladder	5x500ul	29700.00

100 bp DNA Ladder

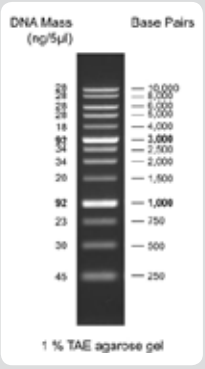
Range: 100-3,000 bp
Number of bands: 12
Concentration: 108 µg/ml
Package: 54ug/500ul
Recommended Load: 5 µl / well
Storage: RT and 4°C up to 6 month.
Store at -20°C up to 1 year.
Containing orange G & xylene cyanol FF as tracking dyes.



Cat No	Product	Size	Price
CLS001-R500	100 bp DNA Ladder	500ul	3420.00
CLS001-R500	100 bp DNA Ladder	5x500ul	16700.00

1Kb DNA Ladder

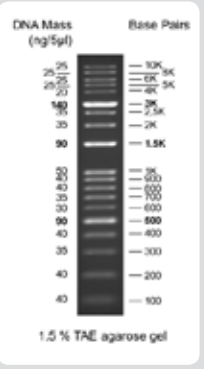
Range: 250-10,000 bp
Number of bands: 13
Concentration: 100 µg/ml
Package: 50ug/500ul
Recommended Load: 5 µl / well
Containing bromophenol blue & xylene cyanol FF as tracking dyes.



Cat No	Product	Size	Price
CLS010-R500	1Kb bp DNA Ladder	500ul	3420.00
CLS010-R500	1Kb bp DNA Ladder	5x500ul	16700.00

KPlus DNA Ladder

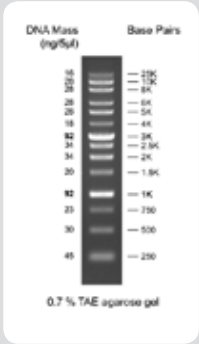
Range: 100-10K bp
Number of bands: 19
Concentration: 100 µg/ml
Package: 86ug / 500ul
Recommended Load: 5 µl well
Containing orange G, xylene cyanol FF and bromophenol blue as tracking dyes.



Cat No	Product	Size	Price
CLS011-R500	KPlus DNA Ladder	500ul	6270.00
CLS011-R500	KPlus DNA Ladder	5x500ul	30400.00

XLarge DNA Ladder

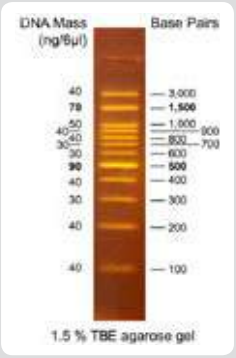
Range: 250-25K bp
Number of bands: 14
Concentration: 104 µg/ml
Package: 52ug / 500ul
Recommended Load: 5 µl well
Storage: 25°C for 6 months,
Store at 4°C for 12months,
Store at -20°C for 24 months



Cat No	Product	Size	Price
CLS013-R500	XLarge DNA Ladder	500ul	6270.00
CLS013-R500	XLarge DNA Ladder	5x500ul	30400.00

OneMARK 100

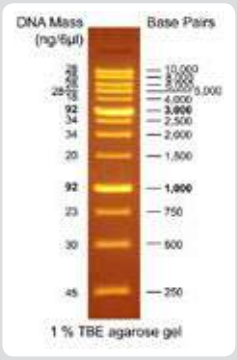
Range: 100-3,000 bp
Number of bands: 12
Concentration: 90 µg/ml
Package: 54ug/600ul
Recommended Load: 6 µl / well
Containing orange G, xylene cyanol FF as the tracking dyes.
Storage: 4°C up to 6 month,
Store at -20°C up to 1 year.



Cat No	Product	Size	Price
CLS101-100	OneMARK100	600ul	3705.00

OneMARK B

Range: 250-10,000 bp
Number of bands: 13
Concentration: 83.3 µg/ml
Package: 50ug/600ul
Recommended Load: 6 µl / well
Containing bromophenol blue and xylene cyanol FF as the tracking dyes.
Storage: 4°C up to 6 month,
Store at -20°C up to 1 year.



Cat No	Product	Size	Price
CLS110-100	OneMARK B	600ul	3705.00

PiNK Plus Prestained Protein Marker

- Broad range: 10-175 kDa
- Ready-to-use: supplied in a loading buffer for direct loading on gels
- Easy to identify: includes the ~10, ~40 and ~90 kDa reference bands coupled with an blue dye
- Sharp bands

Quality Control: Tested in SDS-polyacrylamide gel electrophoresis and Western blotting.

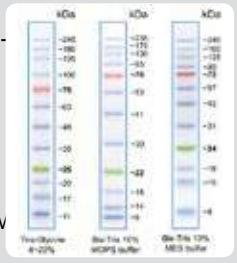
Recommendations for Loading:

1. Thaw the ladder either at room temperature or at 37-40°C for a few minutes to dissolve precipitated solids. Do not boil.
2. Mix thoroughly to ensure the solution is homogeneous.
3. Load the following volumes of the ladder on SDS-polyacrylamide gel:
   - 5 µl per well for mini-gels, 2.5 µl per well for blots
   - 140 µl per well for large gels, 5 µl per well for blots

Cat No	Product	Size	Price
CLS005-0500	PiNK Plus Prestained Protien Marker	500ul	15675.00

BLUeye Prestained ProteinMarker

- 3 µl or 5 µl per loading for clear visualization during electrophoresis on 15-well or 10-well mini-gel, respectively.
- 1.5~2.5 µl per well for general Western transferring.



Contents: Approximately 0.1~0.4 mg/ml of each protein in the buffer (20 mM Tris-phosphate, pH 7.5 at 25°C), 2 % SDS, 1 mM Dithiothreitol, 3.6 M Urea, and 15 % (v/v) Glycerol).

Quality Control: Under suggested conditions, BLUeye Prestained Protein Ladder resolves 12 major bands in 15% SDS-PAGE (Trisglycine buffer) and after Western blotting to nitrocellulose membrane.

Guide for Molecular Weight Estimation (kDa)

Cat No	Product	Size	Price
CLS007-0500	BLUeye Prestained Protein Maker	500ul	17100.00

BLUelf Prestained Protein Marker

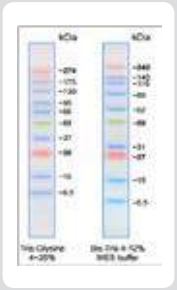
- 3 µl or 5 µl per loading for clear visualization during electrophoresis on 15-well or 10-well mini-gel, respectively.
- 1.5~2.5 µl per well for general Western transferring.
- Apply more for thicker (> 1.5 mm) or larger gel.

Contents: Approximately 0.1~0.4 mg/ml of each protein in the buffer (20 mM Tris-phosphate, pH 7.5 at 25°C), 2 % SDS, 10 mM Dithiothreitol, 3.6 M Urea, and 15 % (v/v) Glycerol).

Quality Control: Under suggested conditions, BLUelf Prestained Protein Ladder resolves 13 major bands in polyacrylamide gel with appropriate buffers and after Western blotting to nitrocellulose membrane.

Cat No	Product	Size	Price
CLS008-0500	BLUelf Prestained Protein Ladder	500ul	17955.00

BLUltra Prestained Protein Ladder



- Broad range: 6.5-270 kDa
- Ready-to-use: supplied in a loading buffer for direct loading on gels
- Proteins are covalently coupled with a blue chromophore except for three reference bands (two orange bands at 30 kDa and 270 kDa and one green band at 52 kDa)

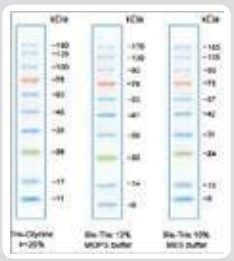
Description The BLUltra Prestained Protein Ladder is designed for monitoring protein separation during SDS-polyacrylamide gel electrophoresis and verifying Western transfer efficiency on membranes (PVDF, nylon, or nitrocellulose) and for approximating the size of proteins.

Quality Control Under suggested conditions, BLUltra Prestained Protein Ladder resolves 10 major bands in 4-12% Bis-Tris Gel (MES buffer) and after Western blotting to the nitrocellulose membrane.

Storage Buffer 62.5 mM Tris-H3PO4 (pH 7.5 at 25 °C), 1 mM EDTA, 2% SDS, 10 mM DTT, 1 mM NaN3, 33% glycerol.

Cat No	Product	Size	Price
CLS003-0500	BLUltra Prestained Protein Ladder	500 µl	15675.00
CLS003-0500	BLUltra Prestained Protein Ladder	500 µl X 5	74100.00

BlueRAY Prestained ProteinLadder



- Broad range: 10-180 kDa
- 3 µl or 5 µl per loading for clear visualization during electrophoresis on 15-well or 10-well mini-gel, respectively
- 2~3 µl per well for general Western transfering.
- Apply more for thicker (>1.5 mm) or larger gel.

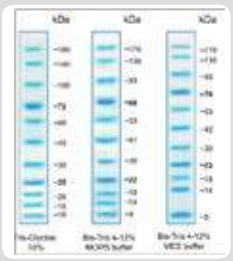
Description The BlueRAY Prestained Protein Ladder is designed for monitoring protein separated during SDS polyacrylamide gel electrophoresis, verification of Western transfer efficiency on membranes (PVDF, nylon or nitrocellulose) and for approximate sizing of proteins

Quality Control 5 µl of BlueRAY Prestained Protein Ladder resolves 10 bands in 4-20% SDS-PAGE (Tris-glycine buffer) and after Western blotting to PVDF membrane

Contents Approximately 0.2~0.4 mg/ml of each protein in buffer (20 mM Trisphosphate pH 7.5 at 25°C), 2% SDS, 0.2 mM Dithiothreitol, 3.6 M Urea, and 15% (v/v) Glycerol).

Cat No	Product	Size	Price
CLS006-0500	BlueRAY Prestained Protein Ladder	500 µl	15675.00
CLS006-0500	BlueRAY Prestained Protein Ladder	500 µl X 5	74100.00

BlueAQUA Prestained Protein Ladder



- Broad range: 10-180 kDa
- 3 µl or 5 µl per loading for clear visualization during electrophoresis on 15-well or 10-well mini-gel, respectively
- 1.5~2.5 µl per well for general Western transferring.
- Apply more for thicker (> 1.5 mm) or larger gel.

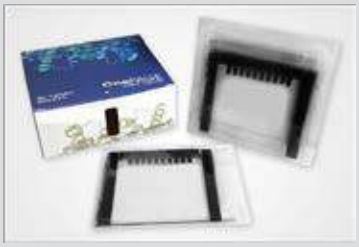
Description The BlueAQUA Prestained Protein Ladder is designed for monitoring protein separation during SDS-polyacrylamide gel electrophoresis, verification of Western transfer efficiency on membranes (PVDF, nylon, or nitrocellulose) and for approximating the size of proteins.

Quality Control Under suggested conditions, BlueAQUA Prestained Protein Ladder resolves 11 major bands in 15% SDS-PAGE (Tris-glycine buffer) and after Western blotting to nitrocellulose membrane.

Contents Approximately 0.1~0.5 mg/ml of each protein in the buffer (20 mM Tris-phosphate, pH 7.5 at 25°C), 2 % SDS, 0.2 mM Dithiothreitol, 3.6 M Urea, and 15 % (v/v) Glycerol).

Cat No	Product	Size	Price
CLS019-0500	BlueAQUA Prestained Protein Ladder	500 µl	15675.00
CLS019-0500	BlueAQUA Prestained Protein Ladder	500 µl X 5	74100.00

OnePAGE Gradient Protein Gels



- Package: Box of 5 gels
- Number of wells: 10 wells
- Outer dimensions: 8 cm X 10 cm
- Thickness of gel layer: 1 mm
- Max loading volume of gel well: 40 µl
- Storage condition: stable at 4°C> 12 months

Description OnePAGE Gradient Protein Gels are pre-cast polyacrylamide gels designed to give optimal separation of your small- to medium-sized proteins. Use OnePAGE Gradient Protein Gels for preparing proteins for sequencing, mass spectrometry, and any other techniques where protein integrity is crucial and optimal results during day-to-day use

Quality Control The quality of the OnePAGE Gradient Protein Gels is tested on a lot-to-lot basis to ensure consistent product quality

Cat No	Product	Size	Price
CLS08-10TG	OnePAGE Gradient Protein Gels	5Pcs/Box	14500.00
CLS08-10TG-P	OnePAGE Gradient Protein Gels	1 Pc	3500.00

DNA Loading Dye (6X)

6X DNA Loading Dye is ideal for preparing DNA markers and samples for loading on agarose or polyacrylamide gels. The solution allows for easy visual tracking of DNA migration during electrophoresis.

Specifications

- Easy visual tracking of DNA migration during electrophoresis
- Storage: 4ºC up to 12 months

Cat No	Product	Size	Price
CLSD001	DNA Loading Dye (6X)	1mL	1500.00
CLSD010	DNA Loading Dye (6X)	10mL	8500.00
CLSD100	DNA Loading Dye (6X)	100mL	63315.00

Taq DNA Polymerase

Taq DNA polymerase is a thermostable enzyme that catalyzes the polymerization of nucleotides in the 5' to 3' direction at 70-74ºC and exhibits a half-time of 30 minutes at 95ºC. This enzyme possesses 5'-3' exonuclease but without 3'-5' exonuclease activity (proofreading activity). The amplified products are up to 8 Kb with 3' adenosine residues and can be used directly in TA cloning.

Storage: -20ºC for extended periods

Unit definition: 1 U incorporates 10 NMOL of dNTP into acid insoluble products in 30 minutes at 74ºC

Applications: Screening, Primer Extension, Ampliication, Terminal dA Tailing

Cat No	Product	Size	Price
CLSQ050	Taq DNA Polymerase	500u	3500.00
CLSQ050	Taq DNA Polymerase	5x500u	15500.00

(pre-mixed w/ MgCl2)

s-Pfu DNA Polymerase

s-Pfu DNA Polymerase is a thermostable enzyme with a molecular weight of 90 kDa. It catalyzes the polymerization of nucleotides into duplex DNA in the 5'>3' direction, resulting in blunt-ended PCR products without 3'-dA overhangs. s-Pfu DNA Polymerase exhibits 3'>5' exonuclease (proofreading) activity that enables the polymerase to correct nucleotide-misincorporation errors, and lacks 5'>3' exonuclease activity. It is suitable for PCR and primer extension reaction that requires high fidelity when the PCR fragment is relatively shorter.

The extension rate of s-Pfu DNA Polymerase is about 600 bp/min in standard condition. The appropriate reaction temperature is 65~75 OC, the work concentration of dNTPs is 100~300μM, the work concentration of Mg2+ is 2~3mM, and the suitable pH is 8.1~9.1. The amount of enzyme is 1~1.5unit for 20μl PCR reaction, while 2~3units for 50μl PCR reaction.

Cat. No.	Product	Size	Price
CLSP-500	s-Pfu DNA Polymersase	500u	10,000.00

Taq-red™ DNA Polymerase

Taq-red DNA Polymerase is an unique blend of U-Taq DNA Polymerase with an inert red dye. It offers the same performance as U-Taq DNA Polymerase. Several benefits are as follows:

This red dye enables quick and convenient visual confirmation of enzyme addition and reaction mixing.

1. After PCR amplification, samples can be removed from the reaction and loaded directly onto agarose gel without the addition of loading buffer or tracking dye. The red dye, acting as a tracking dye, migrates between bromophenol blue and xylenecyanol at about the same rate as 400~500 bp fragment.
2. The concentration of Taq-red is only 1unit/μl, so the enzyme can be transferred and added more accurately.
3. The enzyme generates PCR products with 3'-dA overhangs, suitable for T-A cloning.
4. 6 kb Lambda DNA and 2.1 kb Human genomic DNA can be amplified very well at our laboratory.

Cat. No.	Product	Size	Price
CLSR-500	Taq-redTM DNA Polymerase	500u	6000.00

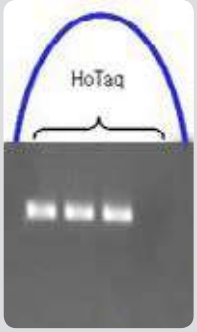
Pfu DNA Polymerase

Pfu DNA polymerase is isolated from the hyperthermophilic marine archaebacterium. Pyrococcus furiosus. The multi functional thermostable enzyme possesses both 5'- to 3'- DNA polymerase and 3'- to 5'- exonuclease activity, which results in a 12-fold increase in fidelity of DNA synthesis over Pfu DNA polymerase. Cloned Pfu DNA Polymerase has a temperature optimum between 72 °C and 78 °C remains > 95% active following a one hour incubation at 95 oC.

Storage: -20ºC for extended periods

Cat No	Product	Size	Price
CLS0093	Pfu DNA Polymerase 5u/ul	100u	6825.00
CLS0093	Pfu DNA Polymerase 5u/ul	500u	23400.00

Hotstart Taq DNA Polymerase



Hotstart Taq DNA Polymerase is a chemically modified Taq DNA Polymerase whose enzyme activities can only be activated after 3-5 minutes of incubation at 94°C. This enzyme thus exhibits no polymerase activities before the onset of thermal cycling, preventing nonspecific DNA amplification and primer dimer formation. PCR products, amplified up to 6kb in length with Taq DNA Polymerase, generate a single base (A) 3' overhang.

Storage: -20ºC for extended periods

Cat No	Product	Size	Price
CLS3GHST81	3G Hotstart Taq DNA Polymerase 5u/ul	500u	41652.00
CLS3GHST81		5x500u	187434.00

dNTP Mix

10 mM dNTPs Mix is a ready-to-use solution of dATP, dCTP, dGTP and dTTP (monosodium salts) at a concentration of 10 mM each in sterile deionized water at pH7.5, whose purity is ≥99% (HPLC). It is free of RNase and DNase, and is suitable for any molecular biology application that requires pure deoxynucleotides, such as PCR, DNA sequencing, cDNA synthesis and nick translation. Storage: Store at -20.

Storage: -20ºC for extended periods

Cat No	Product	Size	Price
CLS-1	dNTP Mix (SBS)	1mL	4500.00

dNTP Seperate

dNTPs in Individual Tube contains 4×0.4 ml of dATP, dCTP, dGTP and dTTP (monosodium salts) at a concentration of 100 mM each in sterile deionized water at pH7.5, whose purity is ≥99% (HPLC). It is free of RNase and DNase, and suitable for any molecular biology application that requires pure deoxynucleotides, such as PCR, DNA sequencing, cDNA synthesis and nick translation

Storage: -20ºC for extended periods

Cat No	Product	Size	Price
CLS-2	dNTP Separate (SBS)	4x0.4 mL	12500.00

PCR SuperMix

PCR SuperMix provides qualified reagents for the amplification of nucleic acid templates by the polymerase chain reaction (PCR). PCR Super Mix contains Mg++, dNTPs, and recombinant Taq DNA Polymerase at concentrations sufficient to allow amplification during PCR. PCR Super Mix is supplied at 1.1X concentration to allow approximately 10% of the final reaction volume to be used for the

Storage: Room Temperature

Cat No	Product	Size	Price
CLSB200	PCR Super Mix	100 rxn	12825.00

One PCR

Only add your templates and primers.
No Fluorescent gel staining needed

Application:

- No post-staining processing of DNA required.
- No need to prepare PCR Reagents.
- Direct loading onto your agarose gel for analysis.

Storage: Room Temperature for 3 months, -20°C up to 1 year

Cat No	Product	Size	Price
CLSB203-0100	One PCR	100 rxn	6500.00

OnePCR HiFi

One PCR HiFi is a ready-to-use PCR reaction mixture. Simply adding primers and template, the reagent will execute primer extensions and other molecular biology applications. One PCR HiFi is a pre-mixed solution containing GDP-HiFi DNA polymerase, PCR buffer, dNTPs, gel loading dyes, enhancer, and fluorescence dye. It contains the fluorescence dye, which is directly detected on the blue-light transilluminator or UV epi-illuminator after the DNA electrophoresis. The One PCR HiFi mixture is supplied at the 2X concentration to allow approximately 50% of the final reaction volume to be used for the addition of the primer and template solutions. Reagents are provided with sufficient amplification

Features

- No post-staining procession.
- No need to prepare PCR reagents.
- Direct loading onto your agarose gel for analysis.
- Sensitivity- High degree of sensitivity as the ethium bromide.
- Time Efficiency- No destaining requirement.
- Compatibility – Use the Blue Light or UV to detect the signal.
- Effective for the amplification of GC-rich targets.
- Exhibits strong 3'>5' exonuclease activity.

Cat No	Product	Size	Price
CLSB205-0100	One PCR HiFi supermix W fluorescent dye	100RXN	12825.00

OnePCR HotStar

One PCR Hot Star is a ready-to-use PCR reaction mixture. Simply add primers, template, and water, the reagent will execute primer extensions and other molecular biology applications. One PCR Hot Star is a pre-mixed solution containing Hot start Taq DNA polymerase, PCR Buffer, dNTPs, gel loading dyes, and fluorescence dye. One PCR Hot Star, which contains the fluorescence dye, is directly detected on BLooK LED transilluminator or UV epi-illuminator after the DNA electrophoresis.

Application

- No post-staining processing of DNA required.
- No need to prepare PCR Reagents.
- Direct loading onto your agarose gel for analysis.
- Sensitivity – High degree of sensitivity as the ethium bromide.
- Speed – No de-staining requirement.
- Compatibility – Use the Blue Light or UV to detect the signal.

Cat No	Product	Size	Price
CLSB206-0100	One PCR Hot Star supermix W fluorescent dye	100 rxns (2.5ml)	21375.00

OnePCR Plus

One PCR Plus is a ready-to-use PCR reaction mixture. Simply add primers, template, and water, the reagent will execute primer extensions and other molecular biology applications. One PCR Plus is a pre-mixed solution containing Taq DNA polymerase, PCR buffer, dNTP, gel loading dyes, enhancer, and fluorescence dye. One PCRTM Plus which contains the Taq DNA polymerase, is purified from the E. coli., and expressing the Thermus aquaticus DNA polymerase gene. This enzyme has a 5'>3' DNA polymerase and the 5'>3' exonuclease activity but lacks the 3'>5' exonuclease activity. One PCR Plus, which contains the fluorescence dye, is directly detected on BLooK LED transilluminator or UV epiilluminator after the DNA electrophoresis.

Application

- No post-staining processing of DNA required.
- No need to prepare PCR Reagents.
- Direct loading onto your agarose gel for analysis.
- Sensitivity – High degree of sensitivity as the ethium bromide.
- Speed – No de-staining requirement.
- Compatibility – Use the blue light or UV to detect the signal.

Cat No	Product	Size	Price
CLSB207-0100	One PCR Plus supermix W fluorescent dye	100 rxns (2.5ml)	8500.00

PCR Dye

PCR Dye is an inert red dye, which can be added into PCR reaction and makes performance more convenient. The recommended amount is 1/10 of reaction volume. After PCR, samples can be removed from the reaction and loaded directly onto agarose gel. The red dye, acting as a tracking dye, migrates between bromophenol blue and xylenecyanol at about the same rate as 400~500 bp fragment.

Cat. No.	Product	Size	Price
CLSD-1	PCR Dye	1ml	1400.00

Green-2-GO qPCR Master mix

Green-2-Go qPCR Mastermix is a convenient premix of all the components, 2X mix of dNTPs, Hot start Taq polymerase, MgCl2, fluorescent detection dye, reference dye, and proprietary buffer components. The components of Green-2-Go qPCR Master Mix have been developed for superb performance in sensitivity, signal-to-noise ratio, and complete elimination of primer dimers. The chemically modified Hot start Taq polymerase included in our master mix significantly reduces non-speciic PCR ampliication observed with regular Taq polymerase. Due to variations in qPCR instruments, we offer different Green-2-Go qPCR Master mix formulations optimized for different machines. Please use the following table as a guideline for the selection of qPCR Master mix appropriate for your particular instrument model.

Storage: -20ºC for extended periods

Cat No	Product	Size	Price	Price
CLSPCR1-R (2X)	Green-2-Go qPCR -ROX	ABI® 7000, 7300, 7700, 7900; StepOnePlusTMStepOne; Eppendorf® Realplex 4	4 x 1.25 ml	54522.00
CLSPCR2-L (2X)	Green-2-Go qPCR Low ROX	ABI®7500; Stratagene®Mx3000, Mx3005, Mx4000	4 x 1.25 ml	54522.00
CLSPCR3-IC (2X)	Green-2-Go qPCR iCycler	BioRad® iCycler®, iQTM5, MyiQTM	4 x 1.25 ml	54522.00
CLSPCR4-S (2X)	Green-2-Go qPCR-S	BioRad® CFX96; Roche LightCycler® 480, MJ ResearchOpticonTM and OpticonTM 2; MJ research Chromo® 4; Corbett Rotor-grene® 600, 3000; Eppendorf® Realplex 2	4 x 1.25 ml	54522.00

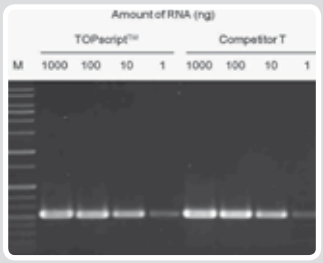
RT-PCR Kit

One-Step AMV/ M-MULV RT-PCR offers a unique system for performing RT-PCR in a single step, in a single tube. Traditionally, RT-PCR is performed in two reaction steps. In the initial eaction, first-strand cDNA is reverse transcribed from total or poly(A) RNA. Then, in a separate reaction, the cDNA is amplified by PCR using a Taq DNA polymerase.This kit allows cDNA synthesis and PCR to be performed in a single optimized bufer, with AMV/ M-MULV RT and Taq DNA polymerase. No additional reagents are required after the reaction is initiated. This method reduces the possibility of cross-contamination and provides a very convenient technique for gene expression.

Storage: -20°C

Cat No	Product	Size	Price
CLSB300-0050	One Step RT-PCR System	50 rxn	26500.00
CLSS6649	One Step AMV-RT-PCR Kit	100 rxn	93600.00
CLSS665	One Step M-MULV RT-PCR Kit	100 rxn	93600.00

TOPscript™ cDNA synthesis kit



Experimental procedure (Block PCR)

For cDNA synthesis, RT reaction was performed at 50°C temperature by using TOPscriptTM cDNA synthesis kit and competitor's product with indicated amount of Hela total RNA. nTaq-Tenuto (Cat#. P225) was used for the subsequent PCR.

Result

TOPscriptTM cDNA synthesis kit was shown as similar performance compare to the world best competitors.

Storage: -20°C

Cat No	Product	Size	Price
CLSB100	TOPscriptTM cDNA synthesis kit	100 rxn	68500

Easy-Go™ RT PreMix

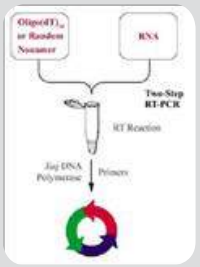
Easy-Go™ RT Pre Mix is a new, powerful, ready-to-use RT kit for the synthesis of cDNA with superiority to other RT products.

Advantages : Speed Substantial reduction in reaction setup time. Stability As each tube of Easy-Go™ RT Pre Mix contains a stabilizer, which can maintain the stability of the RTase up to a year at -20oC.

Description : 0.5ml thin wall micro tube, 20µl reaction
0.2ml thin wall micro tubes, 20µl reaction

Cat No	Product	Size	Price
CLSRT-2.5	Easy-GO™ RT Pre Mix	25 tubes	24,000.00
CLSRT-2.2	Easy-GO™ RT Pre Mix	25 tubes	24,000.00

Two-Step RT-PCR Kit



The Two-Step RT-PCR Kit has all the components required to perform First-strand cDNA synthesis followed by amplification of the cDNA product using a two-step process. In the first step, M-MLV Reverse Transcriptase is used to synthesize a DNA copy of input RNA. M-MLV RTase is a frequent choice for cDNA synthesis because of its ease of use and low intrinsic Rnase activity. Oligo(dT)18 primers direct synthesis of a complementary strand of poly(A)+ mRNA. Random nonamer primers direct synthesis of sequences complementary to all RNA present in the reaction.

In the PCR step, a portion of the cDNA product is amplified using U-Taq DNA polymerase and input primers. U-Taq polymerase, bufer, dNTPs are included in this kit.

Key Features:

Optimized for high performance using M-MLV Reverse Transcriptase and Taq DNA polymerase.

Choice of priming methods: oligo(dT)18, random nonamer or gene-speciic primers.

Ampliies targets up to 1.5 kb very well at our laboratory.

Cat No	Product	Size	Price
CLSTRP-25	Two-Step RT-PCR Kit	25 rxn	36,800.00

Site-Directed Mutagenesis Kit

The Site-Directed Mutagenesis Kit can induce mutagenesis at the specific point of sequence that cloned on plasmid DNA. It guarantees 100% of efficiency in theory. Also it is very convenient and simple because it takes just two steps for all experimental procedures. The Site-Directed Mutagenesis Kit does not necessary using M13 vector and methylation step. Indeed, the Kit can induce mutation of nucleotide, re-mutation to wild type, mutation of codon and insertion even deletion. As the Kit has these characteristics, it is applicable to analysis for genomic/proteomic function. Also as inducingmutagenesis of specific gene, it can be used for protein engineering like protein development or improving productivity.

When you use this the Kit, you can have mutated clone as doing simple steps. (Design primer with own protocol, use the Enzyme for 15~18 cycles of PCR. Proceed transformation step after the Mutazyme treatment for mutated clone selection) In this theory, clones on LB agar plate are mutated around 100% and after sequencing, you can proceed to the next step.

Cat No	Product	Size	Price
CLSDM-15	Site-Directed Mutagenesis Kit	15 rxn	62500.00

Easy-Go™ RT-PCR PreMix

Easy-Go™ RT-PCR Pre Mix contains all the components necessary for cDNA synthesis and amplification in one tube.

Advantages : Speed Substantial reduction in reaction setup time. Stability As each tube of Easy-Go™ RT-PCR Pre Mix contains a stabilizer, which can maintain the stability of the RTase and DNA polymerase up to a year at -20oC. RTase inactivation prior to PCR has no effects on the activity of the DNA polymerase.

Description : 0.5ml thin wall micro tube, 20µl reaction
0.2ml thin wall micro tubes, 20µl reaction

Cat No	Product	Size	Price
CLSRTP-2.5	Easy-GO™ RT-PCR Pre Mix	25 tubes	41,500.00
CLSRTP-2.2	Easy-GO™ RT-PCR Pre Mix	25 tubes	41,500.00

Novel Juice
Supplied in 6X Loading Buffer

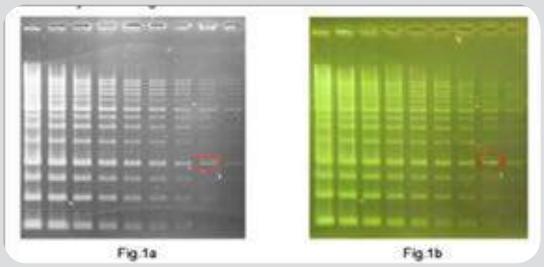
Description

Novel Juice is a non-mutagenic fluorescent reagent that produces instant visualization of DNA bands upon Blue Light or UV illumination of agarose gels. Supplied in GeneDireX's 6X DNA Loading Buffer, Novel Juice is used to prepare DNA markers and samples for loading on agarose or polyacrylamide gels. Novel Juice is the most sensitive stain available for detecting the double-stranded DNA (dsDNA). It contains three tracking dyes (Bromophenol Blue, Xylene Cyanol FF, and Orange G) for visually tracking the DNA migration during the electrophoresis process. It is ideal for the environment requiring a safe , non-hazardous alternative to Ethidium Bromide. Novel Juice keeps your lab safe

Cat No	Product	Size	Price (`)
CLS002-0500	Novel Green (10000X)	500ul	24225.00

Novel Green Plus (Syber Green)

The Novel Green Plus provides an easy 2-step method to stain the DNA band from DNA electrophresis. This unique reagent ensures the DNA to be stained with a high sensitivity and good quality on the gel. Novel Green Plus is a next-generation DNA-binding dye with features ideal for use in quantitative real-time PCR (qPCR) and many other applications. We designed the dye by taking into consideration several essential dye properties relevant to PCR, including PCR inhibition, safety, and stability and ß fuorescence spectra of the dye. Ethidium bromide (EtBr), which presents sensitivity for detecting 1-5 ng double- stranded DNA (dsDNA) in the agarose gel analysis, has been the most common dye used for nucleic



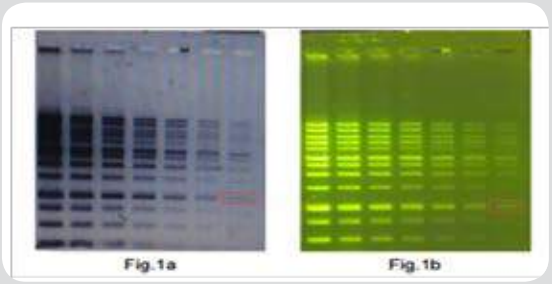
acid gel staining. However, several drawbacks of EtBr have been understood, including that EtBr is a mutagen/carcinogen and presents a high risk of inducing cancer. Moreover,the ultraviolet (UV) light used to illuminate EtBr-DNA compounds probably results in skin or eye damage to the user if misconducted. It's also noted that exposure to the UV light might cause chemical modiÞ cations of the DNA samples in the gel, such as the formation of TT dimmers, leading to challenges with the subsequent DNA manipulations. Reduced efficiency of transformation is observed by our scientists, after conducting ligation with the DNA samples isolated from the gel exposed to a longer period of UV illumination.

Cat No	Product	Size	Price
CLS003-0500	Noval Green Plus	500ul	24225.00

Storage: Stable for up to 1 year at -20°C, Shipping Temperature: Room temperature

Novel Green (10000X)

The Novel Green provides an easy 2-step method to stain the DNA band from DNA electrophresis. This unique reagent ensures the DNA to be stained with a high sensitivity and good quality from the gel. Novel Green is a next-generation DNA-binding dye with features ideal for use in quantitative real-time PCR (qPCR) and many other applications. We designed the dye by taking into consideration several essential dye properties relevant to PCR, including PCR inhibition, safety, and stability and fluorescence spectra of the dye. Ethidium bromide (EtBr), which presents sensitivity for detecting 1-5 ng double-stranded DNA (dsDNA) in the agarose gel analysis, has been the most common dye used for nucleic acid gel staining. However, several drawbacks of EtBr have been understood, including that EtBr is a mutagen/carcinogen and presents a high risk of inducing cancer. Moreover, the ultraviolet (UV) light used to illuminate EtBr-DNA compounds probably results in skin or eye damage to the user if misconducted. It's also noted that exposure to the UV light might cause chemical modifications of the DNA samples in the gel, such as the formation of TT dimmers, leading to challenges with the subsequent DNA manipulations. Reduced efficiency of transformation is observed by our scientists, after conducting ligation with the DNA samples isolated from the gel exposed to a longer period of UV illumination.



Cat No	Product	Size	Price
CLS002-0500	Novel Green (10000X)	500ul	24225.00

Storage: Stable for up to 1 year at -20°C, Shipping Temperature: Room temperature

Nimble Juice

Nimble juice is a fast and sensitive fluorescent dye for visualization and quantitation of proteins separated by 1-D or 2-D SDS-PAGE. It comes as a 100x stock solution that is simply diluted with water by the user to its working concentration. Nimble juice is normally low fluorescent but emits strong fluorescence (bright golden color) as bound to proteins. The staining procedure is a simple two-step protocol (ix and stain) that can be completed in as little as 30 minutes. Gels to be stained are fixed with ethanol/acetic acid solution prior to staining with Nimble juice solution. A destain step is not normally recommended, but may be employed to reduce background, simply by agitating the gel in water for 1-5 minutes. Gels stained with Nimble juice fluorescent gel stain may be directly visualized with a variety of different UV-based fluorescence imaging systems. The maximum emission wavelength of protein-bound Nimble juice is near 570 mm. Nimble juice gives exceptional sensitivity and wide dynamic range for protein detection. The bound Nimble juice dye is easily removed from the protein by immersing the gel in sufficient water, thus it is well compatible with subsequent enzymatic digestion and mass spectrometry for proteomics applications. Stained gels may be stored in stain solution in the dark at 2-8°C; imaging sensitivity might be moderately enhanced after 4°C storage of the stained gel.

Nimble juice is a fast and sensitive luorescent dye for visualization and quantitation of proteins separated by 1-D or 2-D SDS-PAGE

Storage: The product is stable for at least 6 months when stored at 2-8°C. Avoid exposure to temperatures greater than 37°C and protect from light.

Cat No	Product	Size	Price
CLS001-0010	Nimble Juice	10mL (100X)	25650.00
CLS002-0500	Nimble Juice R Type	500 ML	12825.00

Agarose LE

All aplications for agarose take advantage of the special characteristics of the marcoreticular gel. It is used as a sieve or support through which biological macromolecules such as proteins or nucleic acid can pass. Larger particles, such as viruses and subcellular fragments, are also able to move through the gel network.Agarose LE is optimized for pulsed-field electrophoresis. This product has an exceptionally low EEO and high gel strength, both of which facilitate the preparation of low concentration gels for resolving Large fragments (>20kb). Gel strength (1.5%) >2200g/cm2

Cat No	Product	Size	Price
CLS0015	Agarose, LE	100 gm	8190.00
CLS0015	Agarose, LE	500 gm	23400.00

RNase A (Powder)

Grade	Biotech
Appearance	White lyophilized powder
Activity (Kunitz, Protein@37ûC)	>60u/mg
Loss on drying	<5.0%
Dnase	Not Detected
Solubility(1%,water)	Pass

Storage: -20°C. Keep dry. Warm to room temperature before opening

Cat No	Product	Size	Price
CLS0473A	RNase A	25 mg	5220.00
CLS0473A	RNase A	100 mg	15660.00

RNasin (RNase inhibitor)

Electrophoresis grade

Rnasin is a ribonuclease inhibitor extracted from human placenta with a molecular weight 51 kDa. It inhibits the activity of RNase by specifically binding up to RNase with a non-covalent bond. RNasin, free of RNase or Nickase, can maintain its activity at pH from 5 to 8, and the highest one at pH7.8. The concentration of RNasin is 20~40 units/µl. Store at -20oC.

Unit Definition

One unit is defined as the amount of enzyme required to incorporates 1 nmol of dTTP into acid-precipitable material in 10 min at 37oC using poly(A)+ RNA and oligo(dT)18 as template/primer.

Quality Assurance

Dnase and RNase activity is not detected after incubation of 1 µg of DNA and RNA with 200 units of M-MLV Reverse Transcriptase for 3 hours at 37~42°C.

Cat No	Product	Size	Price
CLSRN-1k	RNasin (RNase inhibitor)	1,000 U	8,000.00

RNase A Solution 10mg/mL

Grade	Biotech
Appearance	Colorless haze-free liquid
Activity (Kunitz, Protein@37ûC)	>60u/mg
Endonuclease	Not Detected
pH at 25¼ C	7.0 - 8.0
Dnase	Not Detected
Highly puriied by	affinity chromatography

Storage: -20°C. Keep dry. Warm to room temperature before opening

Cat No	Product	Size	Price
CLS0474	RNase A Solution 10 mg/mL	1mL	2088.00

M-Mulv Reverse Transcriptase (Rnase H Minus)

Bio Basic Reverse Transcriptase is a newly-engineered version of Moloney Murine Leukemia Virus (M-MuLV) reverse transcriptase with the highest thermal stability and least RNase H activity. It can be used to synthesize irst strand cDNA by reverse transcription (RT) at a higher temperature for di cult RNA transcription and to get higher yields. It has a broad working temperature range from 37°C to 60°C, with cDNA product size up to 12Kb. The optimal irst-strand cDNA synthesis temperature for this enzyme is around 50°C.

Storage: -20°C

Cat No	Product	Size	Price
BCB1552	M-Mulv Reverse Transcriptase 200u/ul	2KU	12870.00
BCB1553	M-Mulv Reverse Transcriptase 200u/ul	10KU	64350.00

AMV Reverse Transcriptase

A DNA polymerase which catalyzes the polymerization of DNA, using DNA, RNA or DNA: RNA hybrids and templates. Besides possessing 5'-3' DNA polymerase activity, the enzyme also possesses some RNase H activity which breaks apart RNA: DNA hybrids. It is used primarily for the synthesis of irst and second strand cDNA and primer extensions. To a lesser extent, it is used for RNA sequencing and the preparation of probes for hybridization.

Storage: -20°C

Cat No	Product	Size	Price
BCB0999	Amv Reverse Transcriptase 10u/ul	200u	18720.00
BCB0999	Amv Reverse Transcriptase 10u/ul	1KU	74880.00

Total Protein Extraction Kit

The total Protein extraction Kit provides an optimized cell lysis bufer, protease inhibitor cocktail and Phosphatase inhibitor for convenient extraction of mammalian proteins from cultured cells and tissue samples, under non-denaturing conditions. Total protein isolated by this kit maintain biological activity and can be used for many downstream applications including SDS-PAGE, Western Blotting, IP, Pull Down, Gel Mobility Shift, protein assays and so on. The kit is su cient to extract proteins from 50x 107mammalian cells or 50x200mg of tissues sample.

Storage: -20°C

Cat No	Product	Size	Price
BCBSP003	Total Proein Extraction Kit	50 rxn	17136.00

Plant Protein Extraction Kit

The Plant Protein Extraction Kit provides rapid recovery (as few as 20 minutes) of soluble proteins from plant tissue samples. The inal protein extract is compatible with many downstream applications, including SDS-PAGE, 2-D gel electrophoresis Western blotting, activity assays and a nity puriication. The Kit includes three components: an organic solution to lyse plant cells, an aqueous bufer to gently solubilize proteins and a protein-stabilizing reagent. The Kit has been tested on leaves, roots, lowers and seeds from various species, including Arabidopsis, tobacco, spinach, peas and soybeans. Extremely ibrous tissue samples, such as woody stems, may require additional mechanical grinding by devices not included in the kit. Depending on the particular application, additional components, such as phosphatase inhibitor and chelating agents may be added to the bufer. The kit is su cient to extract protein from either 20 × 40 mg of fresh/frozen plant tissue or 20 × 10 mg of dried plant tissue.

Storage: -20°C

Cat No	Product	Size	Price
BCBSP004	Plant Proein Extraction Kit	20 rxn	17640.00

Trizol

The Trizol RNA Puriication Kit provides a simple, reliable, and rapid method for isolating high–quality total RNA from a wide variety of samples, including animal and plant cells and tissue, bacteria, and yeast.

Storage: Store at 2-8°C, protect from light for up to 12 months.

Recommended volume of Trizol on diferent starting materials

10 cm^2 adherent cells	1 mL	50-100 mg ordinary tissue	1mL
107 suspension cells	1-2 mL	50-100 mg special tissue (live, spleen, bone or cartilage)	2mL
100 µl white cells	2 mL	15-100 mg plant tissue	1 mL

Cat No	Product	Size	Price
BR100	Trizol	100 mL	11500.00

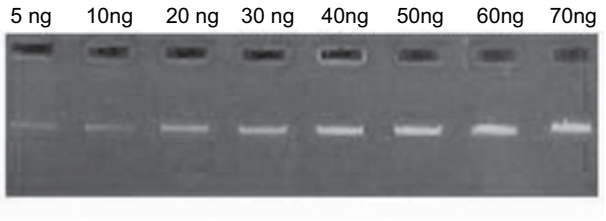
Good View™ Nucleic Acid Stain

Good View™ Nucleic Acid Stain - An alternative to EtBr SBS Genetech

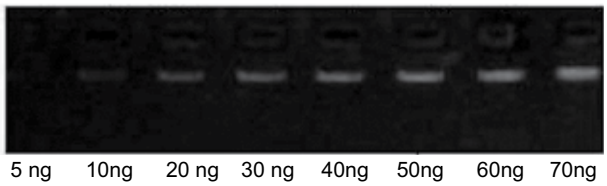
Good View Advantage:

1. Good View™ is noncarcinogenic in nature.
2. Good View™ allows visualization of DNA (>50ng) in the agarose gel under visible light.
3. Good View emits green fluorescence when bound to dsDNA and red fluorescence when bound to ssDNA or RNA.
4. 1ml of Good View™ is sufficient for 20L of agarose gel.

The agarose gel indicates the sensitivity of Gold View is equivalent to that of EB.



Sensitivity detection of Good View under UV transmission (wavelength 300 nm)



Sensitivity detection of EB under UV transmission (wavelength 300 nm)

Order Information

Cat No	Product	Size	Price (`)
CLS-II	Good View™ Nucleic Acid Stain An alternate to EtBr	1ml	5500.00

HOT SELLING RANGE

CAT NO.	DESCRIPTION	PK SIZE	PRICE
CLS1200	ACETONE	1L	3,920.00
CLS1032	ACRYLAMIDE	250G	6,281.00
CLS1032	ACRYLAMIDE	1KG	18,843.00
CLS0025	BIS-ACRYLAMIDE	50G	5,616.00
CLS0025	BIS-ACRYLAMIDE	250G	21,060.00
CLS0044	BORIC ACID	500G	3,744.00
CLS2230	BROMOPHENOL BLUE	25G	5,148.00
CLS0110	CHAPS	1G	2,340.00
CLS0110	CHAPS	5G	9,360.00
CLS0055A	CITRIC ACID	1KG	7,020.00
CLS0038	COOMASSIE BRILLIANT BLUE G-250	25G	6,786.00
CLS0037	COOMASSIE BRILLIANT BLUE R-250	5G	2,340.00
CLS0037	COOMASSIE BRILLIANT BLUE R-250	25G	6,786.00
CLS0108	CTAB	100G	2,356.00
CLS0108	CTAB	500G	9,620.00
CLS3000	CHLOROFORM	500ML	4,760.00
CLS3000	CHLOROFORM	1L	9,520.00
CLS0140	DAB TETRAHYDROCHLORIDE	5 G	7,308.00
CLS0154	DEPC	5ML	3,672.00
CLS0154	DEPC	25ML	11,873.00
CLS0231	DIMETHYL SULFOXIDE (DMSO)	500ML	5,382.00
CLS0185	EDTA, DISODIUM SALT, DIHYDRATE	500G	5,382.00
CLS0195	ETHIDIUM BROMIDE [EB; ETBR]	1G	2,355.00
CLS0195	ETHIDIUM BROMIDE [EB; ETBR]	5G	9,404.00
CLS0212	FORMAMIDE	500ML	8,160.00
CLS0213	D(-)-FRUCTOSE	500G	2,574.00
CLS0213	D(-)-FRUCTOSE	2.5KG	11,232.00
CLS0219	D-GLUCOSE, ANHYDROUS	1KG	4,680.00
CLS0232	GLYCEROL	500ML	4,212.00
CLS0235	GLYCINE	500G	5,148.00
CLS0235	GLYCINE	2.5KG	20,592.00
CLS0264	HEPES, FREE ACID	250G	13,572.00
CLS0277	IMIDAZOLE	100G	5,040.00
CLS0277	IMIDAZOLE	500G	19,600.00
CLS0278A	ISO-PENTYL ALCOHOL [ISOAMYL ALCOHOL]	500ML	2,900.00
CLS0918	ISOPROPANOL	500ML	4,480.00
CLS8601	ISO-PROPANOL (2-PROPANOL)	500ML	3,780.00
CLS0308A	LYSOZYME	1G	2,784.00
CLS0308A	LYSOZYME	5G	8,004.00
CLS0328A	MAGNESIUM CHLORIDE, HEXAHYDRATE	500G	3,744.00
CLS0338	B-MERCAPTOETHANOL	100ML	2,355.00
CLS0425	PMSF	5G	8,960.00
CLS0451	PROTEINASE K	50MG	14,268.00
CLS0451	PROTEINASE K	100MG	21,182.00
CLS0485	SDS	100G	3,920.00
CLS0485	SDS	500G	13,440.00

CAT NO.	DESCRIPTION	PK SIZE	PRICE
CLS0483B	SODIUM CHLORIDE	500G	1,872.00
CLS0483B	SODIUM CHLORIDE	2.5KG	8,190.00
CLS0498	SUCROSE	500G	2,106.00
CLS0498	SUCROSE	2.5KG	8,424.00
CLS0508	TEMED	25ML	1,812.00
CLS0508	TEMED	100ML	6,040.00
CLS0195A	TRIS	500G	6,084.00
CLS0195A	TRIS	2.5KG	26,442.00
CLS0103	TRIS HYDROCHLORIDE	250G	5,382.00
CLS0198	TRITON X-100	500ML	2,574.00
CLS560A	TWEEN 20	500 ML	3,510.00
CLS0562	TWEEN 80	500 ML	3,042.00
CLS0148	UREA	500G	2,223.00
CLS0148	UREA	2.5KG	10,530.00

ANTIBIOTICS

CAT NO.	DESCRIPTION	PK SIZE	PRICE
CLS0028A	AMPICILLIN, SODIUM SALT USP	25G	10037.00
CLS0721	AMPICILLIN, SODIUM SALT SOLUTION (10MG/ML)	10ML	2938.00
CLS0064	AMPICILLIN, TRIHYDRATE	25G	4406.00
CLS0469	CARBENICILLIN, DISODIUM SALT	1G	14688.00
CLS0469	CARBENICILLIN, DISODIUM SALT	5G	58752.00
CLS0118	CHLORAMPHENICOL	50G	4680.00
CLS0118	CHLORAMPHENICOL	250G	20826.00
CLS0160	DEXTRAN SULFATE	10G	4896.00
CLS0160	DEXTRAN SULFATE	50G	17136.00
CLS0160	DEXTRAN SULFATE	250G	82824.00
CLS0217B	GENTAMYCIN SULFATE	1G	1224.00
CLS0217B	GENTAMYCIN SULFATE	5G	2448.00
CLS0217B	GENTAMYCIN SULFATE	25G	9792.00
CLS0286	KANAMYCIN SULFATE	5G	2448.00
CLS0286	KANAMYCIN SULFATE	25G	7344.00
CLS0286	KANAMYCIN SULFATE	100G	23501.00
CLS0366	NEOMYCIN SULFATE	25G	3744.00
CLS0366	NEOMYCIN SULFATE	100G	13338.00
CLS0727	NEOMYCIN SULFATE, STERILE	10ML	2938.00
CLS0135	PENICILLIN G, SODIUM SALT	25G	2808.00
CLS0135	PENICILLIN G, SODIUM SALT	100G	8424.00
CLS2074	POLYMYXIN B SULFATE	25MU	40882.00
CLS2074	POLYMYXIN B SULFATE	100MU	136598.00
CLS0808A	RIFAMPICIN	25G	12974.00
CLS0807	RIBOSTAMYCIN SULFATE SALT	5G	4162.00
CLS0807	RIBOSTAMYCIN SULFATE SALT	25G	12974.00
CLS06203	RAPAMYCIN	100MG	114840.00
CLS0504	TETRACYCLINE HYDROCHLORIDE	25G	4176.00
CLS0504	TETRACYCLINE HYDROCHLORIDE	100G	12180.00
CLS0983	VANCOMYCIN HYDROCHLORIDE	1G	15312.00

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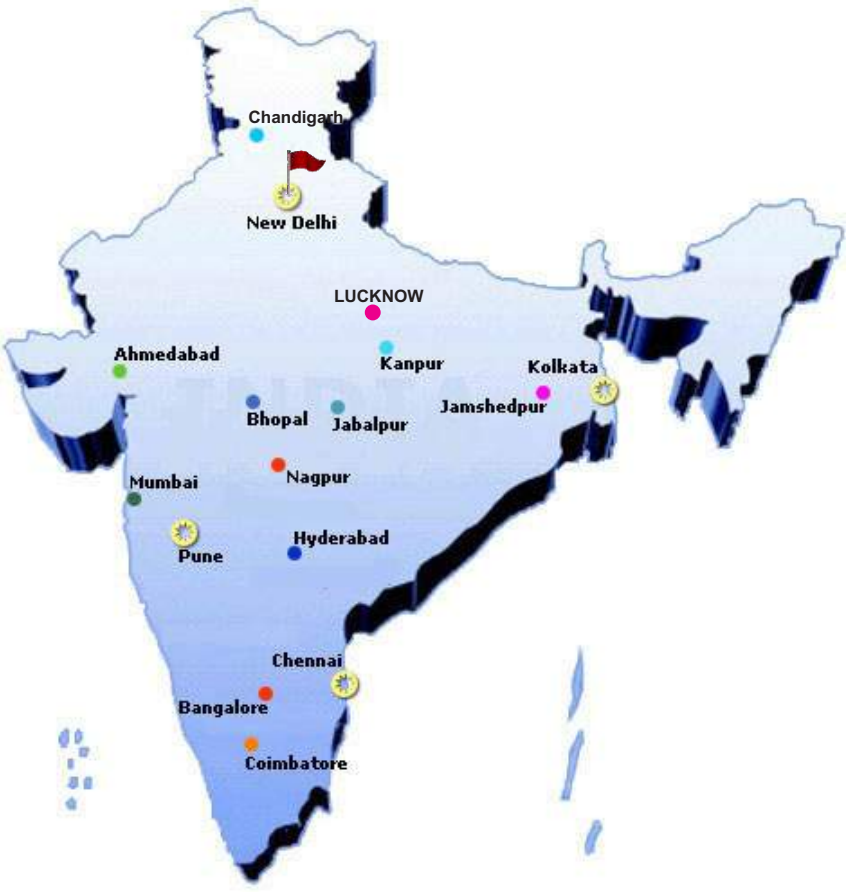

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