

10 bp DNA Ladder (for Native PAGE)

Description:

- 10 bp DNA ladder contains 13 individual double stranded, blunt – ended, linear DNA fragments, containing ~ 50% GC – rich sequences. The ladder contains fragments of 40 bp, 60 bp and ranging from 100 bp – 200 bp with a 10 bp increment.
- The ladder resolves well on 12 – 15 % Native or Urea Polyacrylamide gels.
- The ladder supplied is ideal for accurately sizing PCR products, DNA fingerprinting studies, etc.
- Bands of 100, 150 and 200 bp are spiked for easier detection.

Storage: -20° C

Marker Sizes (bp):

200	170	140	110	40
190	160	130	100	
180	150	120	60	

Ordering Information:

Product	Size	New Cat #	Old Cat #	Price (Rs)
10 bp DNA Ladder	10 µg	105690	MBD25S	2750
10 bp DNA Ladder	30 µg	105689	MBD25L	6600

20 bp DNA Ladder (for Polyacrylamide and Agarose gels)

Description: 20 bp DNA ladder contains 20 individual double stranded, blunt-ended, linear DNA fragments, containing ~ 50% GC-rich sequences. The ladder contains fragments ranging from 100 bp to 1500 bp.

Marker Sizes (bp):

1500	900	500	280	160
1300	800	400	240	140
1100	700	360	200	120
1000	600	320	180	100

The ladder can be run on Agarose gel ($\geq 2\%$) or native polyacrylamide gel (up to 8%). The lower bands in agarose gel might appear slightly diffused while polyacrylamide gel are suitable for better resolution of the fragments.

The ladder is ideal for accurately sizing PCR products, restriction digests, Single Stranded Conformation Polymorphism (SSCP) analysis, DNA Fingerprinting studies, etc.

Storage: -20° C

Ordering Information:

Product	Size	New Cat #	Old Cat #	Price (Rs)
20 bp DNA Ladder	10 µg	105688	MBD24S	2200
20 bp DNA Ladder	30 µg	105687	MBD24L	5300

Supercoiled Plasmid DNA Ladder

Description: Supercoiled plasmid DNA ladder contains 8 supercoiled plasmids ranging from 2kb to 10kb at exactly 2.05, 3, 4, 5, 6, 7, 8 and 10 kilobases. The plasmids are stained by ethidium bromide and can be easily resolved on a 1.0 to 1.2% agarose gel. Plasmids can be accurately sized without need for restriction digestion. The DNA ladder is not intended for quantitative analysis.

Concentration: 25- 40 µg/ml

Ordering Information:

Product	Size	New Cat #	Old Cat #	Price (Rs)
Supercoiled Plasmid DNA Ladder	10 µg	105683	MBD22	2750

Note:

- Supercoiled Plasmid DNA Ladder to be stained in 2-3 µg/ml concentration of Ethidium Bromide
- Suitable for use as molecular weight standard for **agarose gel electrophoresis**.
- Not intended for use in quantitative analysis.

Storage Conditions: The digest is supplied in 10 mM Tris-HCl (pH 8.0) and 10 mM EDTA.

Store at: -20° C.

Marker Sizes (base pairs):

10000	6000	3000
8000	5000	2050
7000	4000	

Low Range DNA Ruler

Description: The Low Range DNA Ruler contains 9 bands of double stranded linear DNA fragments ranging from 100bp to 3 kb. These are suitable for sizing of DNA fragments generated by PCR or restriction digestion, genomic DNA fragments, etc., separated on agarose gels. The 1 kb band is 2.5 fold more intense for easier detection.

Concentration: 150- 500 µg/ml

Ordering Information:

Product	Size	New Cat #	Old Cat #	Price (Rs)
Low Range DNA Ruler	10 µg	105686	MBD23S	1100
	30 µg	105685	MBD23L	2200
	100 µg	105684	MBD23J	4950

Note:

- Low Range DNA Ruler is suitable for use as molecular weight standard for **agarose gel electrophoresis**.
- Not intended for use in quantitative analysis.

Storage Conditions: The digest is supplied in 10 mM Tris-HCl (pH 8.0) and 10 mM EDTA.

Store at: -20° C.

Marker Sizes (base pairs):

3000	1500	300
2500	1000	200
2000	600	100

Supermix DNA Ladder

Description: The Supermix DNA Ladder contains 13 bands of double stranded linear DNA fragments ranging from 500bp to 33.5 kb. These are suitable for sizing of DNA fragments generated by PCR or restriction digestion, genomic DNA fragments, etc., separated on agarose gels. The 3 kb band is 2.5 fold more intense for easier detection.

Concentration: 150- 500 µg/ml

Ordering Information:

Product	Size	New Cat #	Old Cat #	Price (Rs)
Supermix DNA Ladder	10 µg	105682	MBD21S	1100
	30 µg	105681	MBD21L	2000
	100 µg	105680	MBD21J	4200
	250 µg	105679	MBD21B	8400

Note:

- Supermix DNA Ladder is suitable for use as molecular weight standard for **agarose gel electrophoresis**.
- Not intended for use in quantitative analysis.

Storage Conditions: The digest is supplied in 10 mM Tris-HCl (pH 8.0) and 10 mM EDTA.

Store at: -20° C.

Marker Sizes (base pairs):

33500	8990	5000	2000	500
24500	7000	4000	1500	
15000	6000	3000	1000	

1 kb DNA Ladder

Description: The 1 kb ladder contains 9 bands of double stranded linear DNA fragments ranging from 1 kb to 10 kb with a size increment of 1 kb. These are suitable for sizing of DNA fragments generated by PCR or restriction digestion, genomic DNA fragments, etc., separated on agarose gel. The 3 kb band is 2.5 fold more intense for easier detection.

Concentration: 150 - 500 µg/ml

Ordering Information:

Product	Size	New Cat #	Old Cat #	Price (Rs)
1 kb DNA Ladder	10 µg	105678	MBD20S	1100
	30 µg	105677	MBD20L	2000
	100 µg	105676	MBD20J	4200
	250 µg	105675	MBD20B	8400

Note:

- 1 kb DNA Ladder is suitable for use as molecular weight standard for **agarose gel electrophoresis**.
- Not intended for use in quantitative analysis.

Storage Conditions: The digest is supplied in 10 mM Tris-HCl (pH 8.0) and 10 mM EDTA.

Store at: -20° C.

Marker Sizes (base pairs):

10000	6000	3000
8000	5000	2000
7000	4000	1000

500 bp DNA Ladder

Description: The 500 bp ladder contains 10 bands of double stranded DNA fragments ranging from 500 bp to 5 kb with a size increment of 500 bp. These are suitable for sizing of DNA fragments generated by PCR, restriction digests, etc., separated on agarose gels. The 3 kb band is 2.5 fold more intense for easier detection.

Concentration: 150 - 500 µg/ml

Ordering Information:

Product	Size	New Cat #	Old Cat #	Price (Rs)
500 bp DNA Ladder	10 µg	105672	MBD19S	1100
	30 µg	105671	MBD19L	2000
	100 µg	105670	MBD19J	4200
	250 µg	105669	MBD19B	8400

Note:

- 500 bp DNA Ladder is suitable for use as molecular weight standard for **agarose gel electrophoresis**.
- Not intended for use in quantitative analysis.

Storage Conditions: The digest is supplied in 10 mM Tris-HCl (pH 8.0) and 10 mM EDTA.

Store at: -20° C.

Marker Sizes (base pairs):

5000	3500	2000	500
4500	3000	1500	
4000	2500	1000	

100 bp DNA Ladder

Description: The 100 bp ladder contains 10 bands of double stranded DNA fragments ranging from 100 to 1000 base pairs. These are suitable for sizing of DNA fragments generated by PCR, restriction digests, etc., separated on agarose gels. The 600 bp and 1000 bp bands are 2 and 3 fold more intense respectively, for easier detection.

Concentration: 150 - 500 µg/ml

Ordering Information:

Product	Size	New Cat #	Old Cat #	Price (Rs)
100 bp DNALadder	10 µg	105659	MBD13S	1100
	30 µg	105658	MBD13L	2550
	100 µg	107417	MBD13J	5750
	250 µg	105656	MBD13B	11550

Note:

- 100 bp DNA Ladder is suitable for use as molecular weight standard for **agarose gel electrophoresis** and not for polyacrylamide gel electrophoresis.
- For Polyacrylamide gel electrophoresis we recommend **20 bp DNA ladder** (Cat # MBD24)
- Not intended for use in quantitative analysis.

Storage Conditions: The digest is supplied in 10 mM Tris-HCl (pH 8.0) and 10 mM EDTA.

Store at: -20° C.

Marker Sizes (base pairs):

1000	700	400	100
900	600	300	
800	500	200	

Lambda Ladder (for Pulse Field Gel Electrophoresis)

Ordering Information:

Product	Size	New Cat #	Old Cat #	Price (Rs)
Lambda Ladder	5 Lanes (1 Block)	105700	MBD6S	1800
	25 Lanes (5 Blocks)	105699	MBD6L	4200

Description: Agarose blocks with lambda phage is completely digested with Proteinase-K yielding 12 to 14 multimers of lambda DNA having sizes in the range of 48 kb to 960 kb. Each block has sufficient DNA for 5 lanes. In order to prevent shearing of the DNA, the markers are embedded in agarose blocks. Used in pulse field gel electrophoresis (PFG) for size estimation of large DNA fragments.

Storage Buffer: 500 mM EDTA and 1% Lauryl sarcosine.

Store: 4° C.