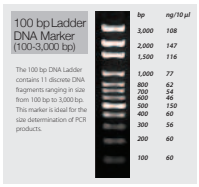
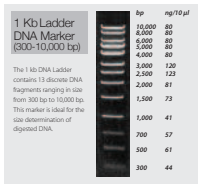
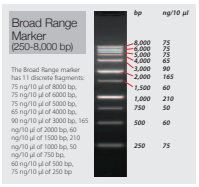
DNA LADDERS

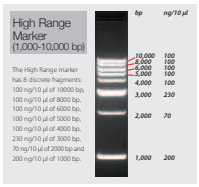
These ready-to-use DNA Size Markers are designed for horizontal gel electrophoresis use. The 100 bp ladder and 1 kb ladder represent the two most popular markers used for DNA fragment size determination while the new Low, High and Broad range markers offer the widest sizing range from 125 bp to 10000 bp. All markers are formulated to run accurately and to provide crisp band patterns. They require no additional preparation and contain Bromophenol Blue for ease of use. All markers are supplied at a concentration of 50µg/500µl (0.1µg/µl).

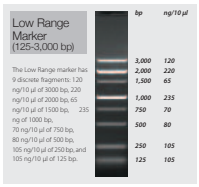
- Ready to use
- Crisp band patterns
- Includes bromophenol blue for ease of use
- Stable at room temperature











Technical Specifications

Product Code	MDNA-100BPH	MDNA-100BP	MDNA-1KB	MDNA-50BP	MDNA-BR	MDNA-HR
Size Range	100-3000bp	100-1500bp	250bp-10Kb	50-1500bp	100bp-10Kb	250bp-25Kb
Number of bands	12	11	13	17	19	14
Reference bands	500, 1500bp	500, 1500bp	1Kb, 3Kb	200, 500bp	500bp, 1.5 & 3Kb	1Kb, 3Kb
Package concentration	54µg/500µl vial	50µg/500µl vial	50µg/500µl vial	56µg/500µl vial	86µg/500µl vial	52µg/500µl vial
Storage	6 months at 25°C, 12 months at 4°C & 24 months at - 20°C					
Recommended loading vol.	5µl/well	5µl/well	5µl/well	5µl/well	5µl/well	5µl/well
Tracking dyes	Orange G, Xylene Cyanol FF, Bromophenol Blue					
Source	Proprietary plasmids and PCR fragments phenol-extracted following restriction digestion and dissolved in 10mM Tris-HCl (pH 8.0) and 10mM EDTA					

Typical Applications

Size determination of DNA and RNA bands on gels

Powdered and Liquid Buffers

NEW

TBE and TAE are available in both powder and liquid form. Both TBE and TAE are widely used to separate nucleic acids by horizontal gel electrophoresis, and occasionally in vertical polyacrylamide gels. TBE has a higher buffering capacity than TAE, which is used for faster separations of linear double-stranded DNA.

Dry TBE is supplied in packs of 10 powder sachets to maintain shelf life. Each buffer sachet may be opened as required and reconstituted in distilled water to make 1 litre of working solution.

Buffers are also provided as ready-made 50x TAE and 10x TBE solutions in 1 and 5 litre volumes. These are ideal for laboratories running horizontal nucleic acid gels on a daily basis that require off-the-shelf working stock solutions.

Technical Specifications

TAE	Each 50x solution contains: Tris-base (2.0M final stock concentration); glacial acetic acid (1.0M); EDTA, pH 8.0 (0.05M); followed by distilled water to 1L
TBE	Each 10x solution / powder contains: Tris-base (0.112M final stock concentration); boric acid (0.112M); EDTA, pH 8.0 (0.02M); followed by distilled water to 1L

Ordering Information

DNA Ladders			
MDNA-100BPH	100bp DNA ladder, 100-3000bp, 1x500µl vial	MDNA-50BP	50bp DNA ladder, 50-1500bp, 1x500µl vial
MDNA-100BP	100bp DNA ladder, 100-1500bp, 1x500µl vial	MDNA-BR	Broad Range DNA ladder, 100bp-10Kb, 1x 500µl vial
MDNA-1KB	1Kb DNA ladder, 250bp-10Kb, 1x500µl vial	MDNA-HR	High Range DNA ladder, 250bp-25Kb, 1x500µl vial
Powdered and Liquid Buffers			
TBEP	Powdered Tris-Borate-EDTA Running Buffer – 10 sachets (1 litre / pack)		
TBE10X1L	Buffer Tris-Borate-EDTA Running Buffer, 10 x 1L	TAE50X1L	Buffer Tris-Acetate-EDTA Running Buffer, 50 x 1L
TBE10X5	Buffer Tris-Borate-EDTA Running Buffer, 10 x 5L	TAE50X5L	Buffer Tris-Acetate-EDTA Running Buffer, 50 x 5L