

## 100 bp DNA Ladder with 6× Loading Dye

LOT: See product label

EXPIRY DATE: See product label

## ORDERING INFORMATION

CAT. NO.	SIZE	PACKAGE CONTENT
BR08002v1	100 lanes	100 bp DNA Ladder (500 µl) DNA Loading Dye (1 ml)

COMPONENT	COMPOSITION
100 bp DNA Ladder	DNA in 10 mM Tris-HCl (pH 8.0) and 10 mM EDTA, Glycerol and tracking dye (orange G)
DNA Loading Dye, 6×	10 mM Tris-HCl (pH 8.0) and 60 mM EDTA, Glycerol and tracking dyes (bromophenol blue, xylene cyanol FF and orange G)
STORAGE	25°C for maximum 6 months (up to expiry date) 4°C for maximum 12 months (up to expiry date) -20°C for maximum 24 months (up to expiry date)
SHIPMENT	Ambient temperature

## FEATURES

- Ready to use DNA ladders ideal for DNA sizing and gel quantification
- Pure and stable — retain sharp bands after 6 months storage at room temperature
- Supplied with 6× Loading Dye for sample DNA
- 100–3,000 bp range, twelve DNA bands, 500 and 1,500 bp reference bands

## APPLICATIONS

- DNA sizing and approximate quantification on agarose gels

## 100 bp DNA Ladder with 6× Loading Dye

### DESCRIPTION

biotechrabbit DNA electrophoresis ladders are mixtures of exceptionally purified DNA fragments created either by PCR or by digesting proprietary plasmids with restriction enzymes. Ladders are ready to use and suitable not only for DNA sizing but also for approximate DNA quantification in gels. For convenience, ladders have increased intensity reference bands and indicated DNA amount in nanograms for every band.

Every ready-to-use ladder is supplied with the nuclease-free Loading Dye Solution, which ensures optimal migration and quantification of your DNA probes. It includes three electrophoresis tracking dyes (xylene cyanol, bromophenol blue and orange G), allowing the process of the DNA through the gel to be visualized.

#### 100BP DNA LADDER

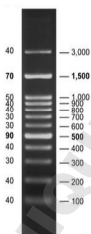
Range: 100 – 3,000 bp  
Reference: 500 and 1,500 bp  
Number of bands: 12

#### DNA LOADING DYE, 6×

Approximate migration of tracking Dyes  
1% TAE agarose gel,  
ambient light

DNA Mass  
ng/5 $\mu$ l

Base Pairs



2% TAE agarose gel



← Xylene cyanol FF (-4 kb)

← Bromophenol blue (-400 bp)

← Orange G (-50 bp)

## PROTOCOL

COMPONENT	LOADING VOLUME	ACTIONS BEFORE LOADING
100 bp DNA Ladder	5 $\mu$ l	Mix well
DNA Loading Dye, 6×	Typically 6 $\mu$ l	Add 1 volume of Loading Dye, 6×, to 5 volumes of DNA

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## CERTIFICATE OF ANALYSIS

### Functional assay

Tested in agarose gel electrophoresis.

Quality confirmed by: Dr. Claudia Jurk

## USEFUL HINTS

- Visit Support at [www.biotechrabbit.com](http://www.biotechrabbit.com) for product selection guides.
- Visit Applications at [www.biotechrabbit.com](http://www.biotechrabbit.com) for more nucleic acid purification and analysis products.
- Visit OEM at [www.biotechrabbit.com](http://www.biotechrabbit.com) for custom product formulations and bulk amounts.

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