

# 1kb DNA Ladder Marker

**RUO** For Research Use Only

**REF** W3502

## DESCRIPTION

1kb DNA Ladder is a mixture of specially designed double-stranded DNA fragments for determining the exact size of DNA fragments. The 1Kbp DNA ladder marker consists of 9 DNA fragments ranging in size from 500 to 10,000 bp. The 1kb DNA ladder marker is supplied in a ready-to-use format. This ladder can be stained with ethidium bromide or radiolabeled at 5'-ends. DNA ladder marker is premixed with loading buffer. The ladders are not intended for use in quantitative analysis.

## KIT CONTENTS

Contents	W3502
1kb DNA Ladder (40 µg/ml)	500 µl

## STORAGE BUFFER

- 10 mM Tris-HCl, pH8.0, 1 mM EDTA, 5% Glycerol, 0.005% Bromophenol Blue, and 0.005% Xylene Cyanol

## USAGE INFORMATION

- Concentration : 200 ng/5 ml (40 mg/ml)
- Recommended loading : 5 µl (100 lanes, ready-to-use)
- Range : 500 ~ 10,000 bp
- Number of bands : 9

## STORAGE CONDITIONS

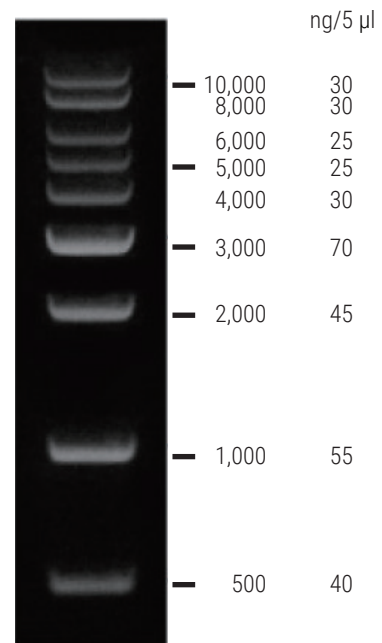
- 20°C for 2 year
- 4°C for 6 months
- Room temperature (20-25°C) for 2 months.

## CAUTIONS

- Always use the fresh tip to take out marker solution.  
(If you do not, trace amount of contaminated DNases from buffer tank may degrade marker DNA rapidly)
- Don't boil the product.
- Use appropriate % of gels for separation of 100 to 1,500 bp sizes (1 to 3% agarose gel is recommended)
- Confirm that the concentration of DNA staining dye is optimal before use. (Breakage or suboptimal concentration of ethidium bromide in gel is a main cause of low estimation of marker concentration or your DNA. 5ng of DNA should be seen in normal condition)
- Loading volume and concentration should be optimized by gel size, well size, and running length.
- Low sized DNA bands can be gradually disappeared as running is progressing. (This is because some DNA is getting out from gel to buffer during horizontal electrophoresis, not because the DNA concentration is incorrect. This will be the same for your DNA)

## ORDERING INFORMATION

Product	Cat No.	Package
1kb DNA ladder marker	W3502	500 µl



5 µl/lane ; 1.2% agarose in 1x TAE stained with ethidium bromide

## Technical Support



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