

# 500 bp DNA Ladder

**Code No.** 3411A      **Size:** 250  $\mu$ l  
(for 100 lanes)  
**Conc.:** 200 ng/ $\mu$ l

**Supplied Reagent:**  
**6X Loading Buffer**      **1 ml**

## Description:

This marker consists of 10 fragments between 500 bp and 5 kb in multiples of 500 bp. The 2 kb fragment is brighter than the other fragments and serves as a visible reference indicator. They are all double-stranded DNA fragments.

## Form:

10 mM Tris-HCl, pH 8.0  
1 mM EDTA

## Storage:

-20°C  
(Once opened, 6X Loading Buffer should be stored at room temperature)

## Application:

Used as a DNA molecular size marker in agarose gel electrophoresis.

## 6X Loading Buffer (Store at RT after used):

36% Glycerol  
30 mM EDTA  
0.05% Bromophenol Blue  
0.02% Xylene Cyanol

Add 1/5 volume of 6X Loading Buffer with DNA solution to apply on agarose gel electrophoresis. In case precipitates generated during the storage at room temperature, dissolve in warm bath before use.

## Application example:

500 bp DNA Ladder	2.5 $\mu$ l (500 ng)
Sterile purified water	2.5 $\mu$ l
6X Loading Buffer	1 $\mu$ l

Run agarose gel electrophoresis using  
ex. 1% Agarose L03 [TAKARA] (Cat. #5003/B).

Perform staining with EtBr, or SYBR™ Green I Nucleic Acid Gel Stain (Cat. #5760A/5761A)\*.

\* Not available in all geographic locations. Please check for availability in your area.

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## Note

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