

**50 bp Ladder**

Catalog Number **DM 1029, 1029L, 1030, 1030L**

Storage Temperature **-20°C**

**Product Description**

The 50 bp Ladder is prepared from pBAN plasmid DNA digested by *Sma*I, followed by phenol inactivation of enzyme. And other materials are also completely removed. So you can always see the bands with high resolution and the same band pattern. The 50 bp Ladder contains 16 double stranded DNA fragments ranging in size from 50~800 bp in 50 bp increment and one 2,920 bp DNA fragment. Because this is prepared from one plasmid DNA, you can estimate the concentration as well as the size of sample DNA fragment.

**Storage Buffer (for DM 1029, DM 1030)**

12 mM Tris-HCl (pH 8.0)

1 mM EDTA (pH 8.0)

**6X Loading Dye (for DM 1029, DM 1030)**

15 % (w/v) Ficoll

0.05 % (w/v) Bromophenol blue

45 mM EDTA (pH 8.0)

**Buffer I (for DM 1029L, DM 1030L)**

10 mM Tris-HCl (pH 8.0)

8.33 mM EDTA (pH 8.0)

2.5 % (w/v) Ficoll

0.0083 % Bromophenol blue

Final concentration (when mixed with lyophilized DNA)

2.5 % (w/v) Ficoll

7.5 mM EDTA (pH 8.0)

**Instructions For Use**

**Solution Form**

Mix DNA solution dissolved in TE buffer (pH 8.0) with 6X Loading Dye offered with our product in the ratio of 5:1 before use.

Ex. 1) 5 ul of DNA solution + 1 ul of 6X Loading Dye

Ex. 2) 10 ul of DNA solution + 2 ul of 6X Loading Dye

**Lyophilized Form**

Add 600 ul (DM 1029L), or 1.2 ml (DM 1030L) of Buffer I solution offered with our product to blue DNA precipitate, and dissolve it completely so that it may become the concentration indicated at the bottom of this product information just before using it.

\*Once dissolved, store at less than 0°C

**Precautions**

For *In Vitro* Use Only

Catalog No.	Form	Quantity
DM 1029	Solution	0.05 mg/0.5 ml X 1
DM 1030	Solution	0.1 mg/1.0 ml X 1
DM 1029L	Lyophilized	0.05 mg/pellet X 1
DM 1030L	Lyophilized	0.1 mg/pellet X 1