



For research use only

ISO9001

1Kbp DNA Ladder Marker (Supercoil), Ready-to-use

Product	Volume	Cat. No.	Remarks
1Kbp DNA Ladder Marker (Supercoil), Ready-to-use	500 µl (20 µg)	EBM-1011	Ready-to-use

Description

The 1Kbp DNA ladder marker (supercoil) is a mixture of specially designed double-stranded and supercoiled DNAs for determining the exact size of cloned plasmid vectors in a supercoiled form. The 1Kbp DNA ladder marker (supercoil) consists of 7 DNAs ranging in size from 2 to 10 Kbp. The 5 Kbp band is double in intensity and serves as a reference indicator. The 1Kbp DNA ladder marker (supercoil) is supplied in a ready-to-use format, premixed with loading buffer and tracking dyes (xylene cyanol and bromophenol blue). This ladder marker can be stained by ethidium bromide or any other known DNA staining methods. The ladder marker can not be used for quantitative purpose.

Storage Buffer

- Marker DNA : 20 µg in 0.5 ml of 10 mM Tris-HCl, pH8.0, 1 mM EDTA, 5% Glycerol, 0.005% Bromophenol Blue, and 0.005% Xylene Cyanol

Recommended Storage Condition

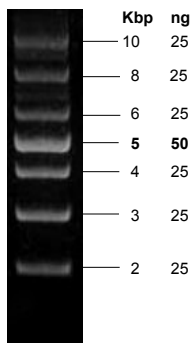
- 70°C for 2 year
- 20°C for 1 year
- Just after opening the tube, aliquot the product into fresh tubes as soon as possible
- Avoid repeated freezing and thawing

Usage Information

- Concentration : 200 ng/5 µl (20 µg)
- Recommended loading : 5-10 µl (50-100 lanes, ready-to-use)
- Range : 2,000 – 10,000 bp
- Number of bands : 7

Cautions

- Do not heat the marker solution up to 30°C. This is a main cause of nick formation and rapid appearance of open circular DNA.
(We recommend putting the marker on the ice when it is out of freezer)
- Do not expose to UV light for a long time during electrophoresis.
- 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)
- Use appropriate % of gels for separation of 2,000 to 10,000 bp sizes
(0.5 to 1% 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. 5 ng of DNA should be seen in normal condition)
- Keep in mind that the supercoiled plasmids always run faster than nick or linearized DNAs

1Kbp DNA Ladder Marker (Supercoil)

5 µl/200 ng/lane ;
0.7% agarose in 0.5x TAE, stained with ethidium bromide



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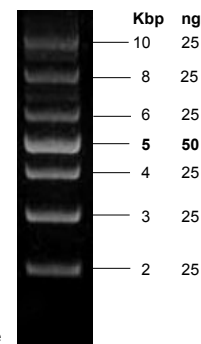
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