



1 Kb DNA Ladder

Cat. No.: WSDL1000 Package: 50ug/vial

Product Description:

This ladder consists of 10 blunt ended DNA bands at exactly 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10 kilobase. All bands (except 5 kb) are supplied at 30 ng/ul, providing uniform staining intensity with ethidium bromide or sybr green I dyes. The **5 kb** band is supplied at triple the concentration, 90 ng/ul, to provide an easy marker for band identification. All bands can be resolved using 0.6% - 1.0% agarose gel electrophoresis.

Storage Buffer:

Storage buffer: 10 mM Tris-HCl, 1 mM EDTA, (pH 8.0). Store at -20 or below.

Note: Thaw the stock solution at 37 completely and vortex gently before use.

請注意：為避免跑出的條帶模糊，從冷凍取出請先 37°C 回溫，再 Vortex 混和均勻，離心後使用。

Figure:

Ethidium bromide stained gel.

0.9% agarose gel showing ten bands from 1 kb to 10 kb.

10Kb -
8Kb -
7Kb -
6Kb -
5Kb -
4Kb -
3Kb -
2Kb -
1Kb -



Tips for Achieving the Best Results:

(1) Make a ready-to-use working solution of the ladder as follows:

Add 50 u1 ladder stock solution to 450ul ready-to-use loading buffer (containing 50ul 10X loading dye and 400 ul TE buffer). Vortex, mix well.

Use **5 - 10 u1** of working solution per loading.

The working solution may be stored at 4 for a few weeks. For long term storage, store at -20 .

Thaw the working solution at 37 completely and vortex gently before use.

(2) For best resolution of 5 - 10 kb fragment, use 0.6% agarose. For best resolution of 1 - 5 kb fragment, use 1.0% agarose. For general use, use 0.8% - 0.9% agarose.

(3) To pinpoint the location of a sample band relative to the ladder, try the following technique. Run three lanes in parallel: sample only, sample + ladder, ladder only. This technique is especially useful for bands above 6 kb.