100bp DNA Ladder

Catalog No.: 2408-500 Size: 2 x 250 ul

Storage Condition

Store at 4℃ for 6 months, and store at -20℃ for long-term storage.

Components

Component	Size
100bp DNA Ladder	2 x 250 ul

Description

100bp DNA Ladder is provided with 1× Loading Buffer for tracking of sample DNA migration, contains 10 fragments: 100 bp, 200 bp, 300 bp, 400 bp, 500 bp, 600 bp, 700 bp, 800 bp, 900 bp and 1000 bp. 5 µl of this product contains ~50 ng of each band, except the 500 bp fragment which contains ~120 ng.

The product can be stably stored at room temperature during normal usage without degradation and dispersion. The ladder is designed with a uniform intensity of DNA bands for a clear view of each band. An exact amount of DNA in each band allows approximate quantification of DNA samples.

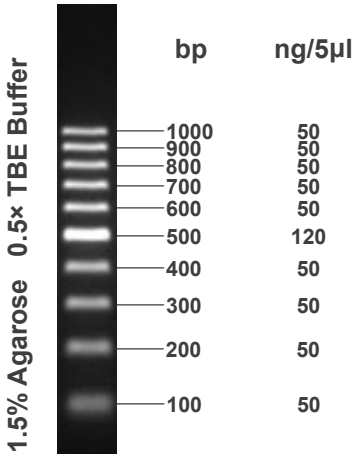
Notice

1. The product is pre-mixed with 1× loading buffer and tracking dyes, and can be directly loaded for electrophoresis.
2. Recommended gel concentration range: around 1.5% TAE agarose. TBE can be used instead of TAE, and the separation could be improved too.
3. When performing electrophoresis using an agarose gel containing DNA Red Safe Stain, the bromophenol blue tracking band should migrate to approximately 2/3 of the gel length.

Protocol

1. We recommend loading 5 µl of 100bp DNA Ladder per gel lane (Adjust the sample volume according to the width of combs).
2. Using a 1.2~2.0% Agarose (#2400-100) gel and electrophorese in 1× TAE or 0.5× TBE buffer, with the voltage set to 5~10 V/cm. It is important to use fresh gel & buffer.
3. Using DNA Red Safe Stain (#2122-500) or other nucleic acid stains for gel staining, then observe the bands under UV light.

Result Display



5 µl/lane

7 V/cm,40 min

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