50bp DNA Ladder

REF: EG21902-S/M

Storage Condition

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

Components

Component	EG321902S	EG321902M
50bp DNA Ladder	250 μl	5×250 μl

Description

50bp DNA Ladder is provided with 1× Loading Buffer for tracking of sample DNA migration, contains 14 fragments: 50 bp, 100 bp, 150 bp, 200 bp, 250 bp, 300 bp, 350 bp, 400 bp, 500 bp, 600 bp, 700 bp, 800 bp, 900 bp and 1000 bp. 5 μl of this product contains ~40 ng of each band, except the 500 bp and 250 bp fragment which contains ~100 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.

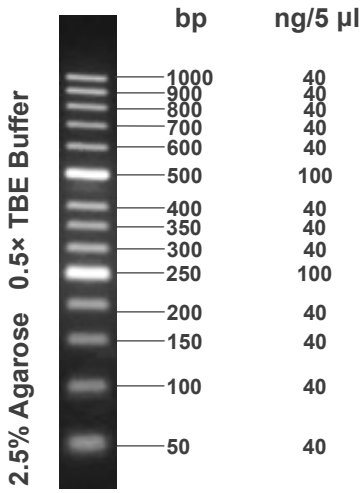
Notice

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: 2~3% TAE agarose. A higher concentration agarose gel will increase bands resolution. TBE can be used instead of TAE, and the separation could be improved too.
3. When performing electrophoresis using an agarose gel containing Safe Red DNA Stain, the bromophenol blue tracking band should migrate to approximately 2/3 of the gel length.

Protocol

1. We recommend loading 5 μl of 50bp DNA Ladder per gel lane (Adjust the sample volume according to the width of combs).
2. Using a 2~3% Agarose (REF: EG20910) gel, or 5% PAGE 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 Safe Red DNA Stain (REF: CP18106S) or other nucleic acid stains for gel staining, then observe the bands under UV light.

Result Display



5 μl/lane

7 V/cm,50 min

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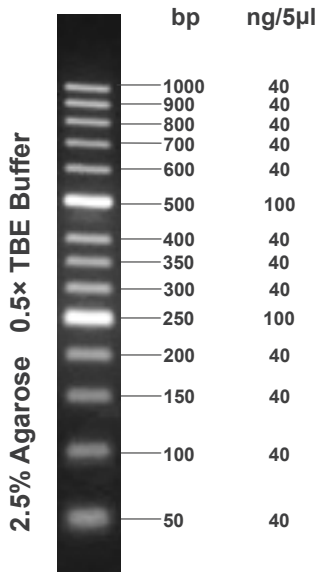
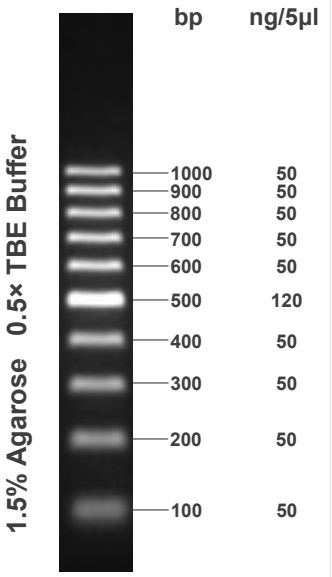


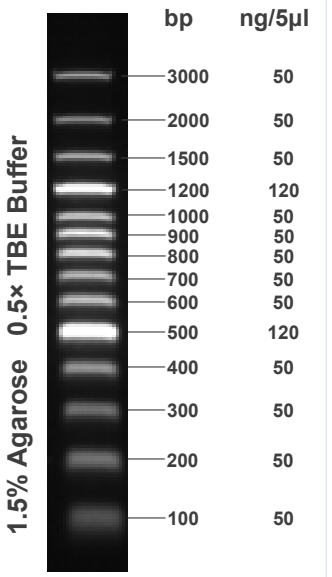
5 μl/lane
7 V/cm,50 min

50bp DNA Ladder
EG21902S/M



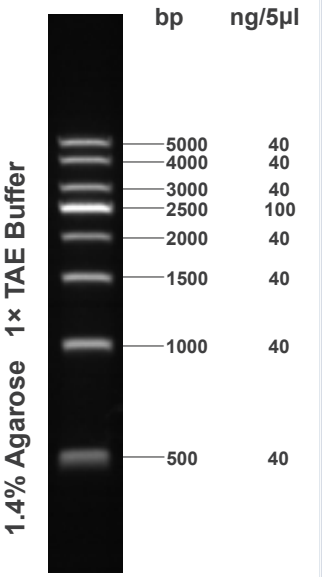
5 μl/lane
7 V/cm,40 min

100bp DNA Ladder
EG21903S/M



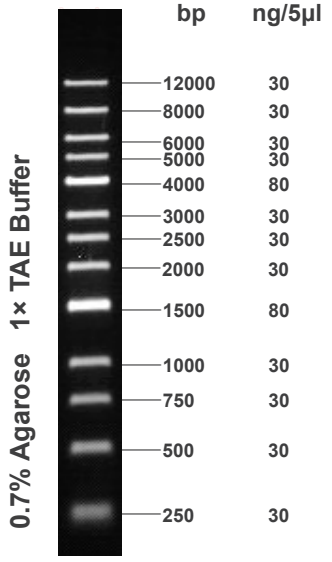
5 μl/lane
7 V/cm,45 min

100bp Plus DNA Ladder
EG21908S/M



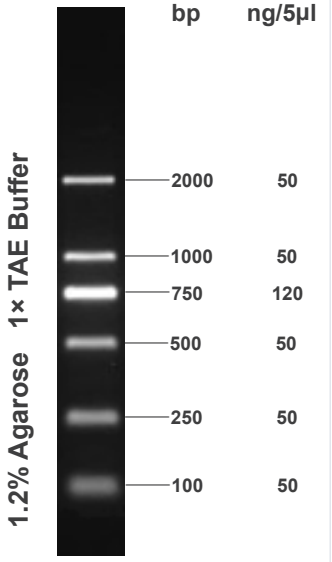
5 μl/lane
7 V/cm,45 min

500bp DNA Ladder
EG21907S/M



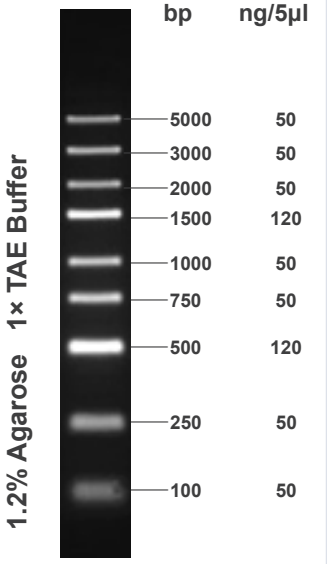
5 μl/lane
7 V/cm,45 min

1kb DNA Ladder
EG21909S/M



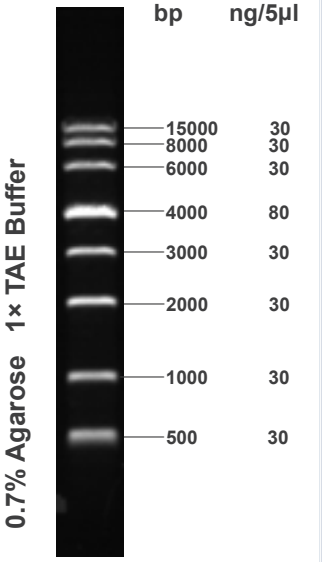
5 μl/lane
8 V/cm,25 min

FY2000 DNA Marker
EG21910S/M



5 μl/lane
7 V/cm,30 min

FY5000 DNA Marker
EG21911S/M



5 μl/lane
7 V/cm,40 min

FY15000 DNA Marker
EG21912S/M

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