

100bp Plus DNA Ladder

REF: EG21908-S/M

Storage Condition

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

Components

Component	EG21908S	EG21908M
100bp Plus DNA Ladder	250 µl	5×250 µl

Description

100bp Plus DNA Ladder is provided with 1× Loading Buffer for tracking of sample DNA migration, contains 14 fragments: 100 bp, 200 bp, 300 bp, 400 bp, 500 bp, 600 bp, 700 bp, 800 bp, 900 bp, 1000 bp, 1200 bp, 1500 bp, 2000 bp and 3000 bp. 5 µl of this product contains ~50 ng of each band, except the 500 bp and 1200 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.

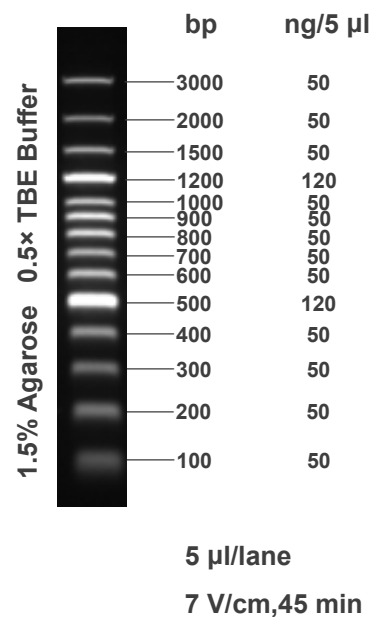
Notice

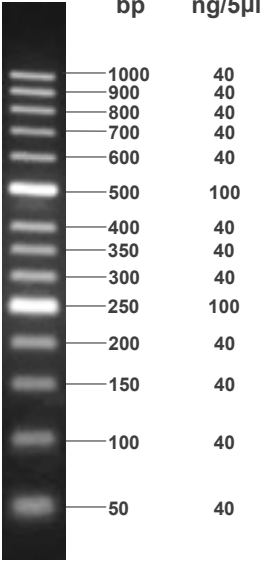
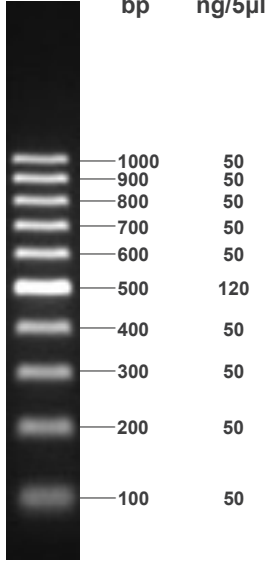
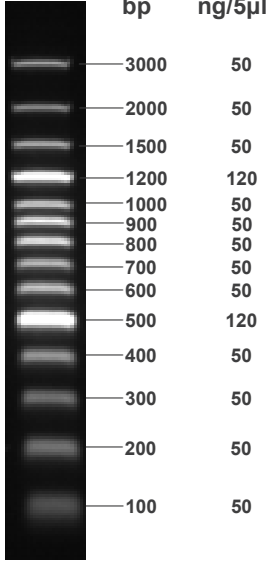
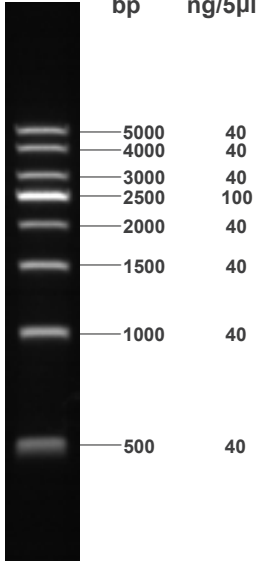
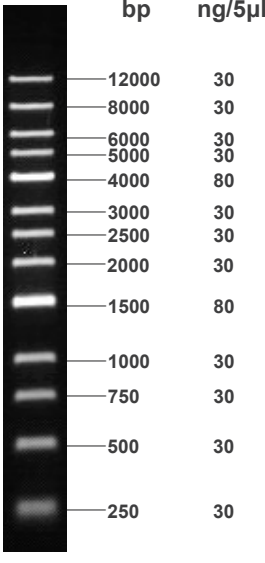
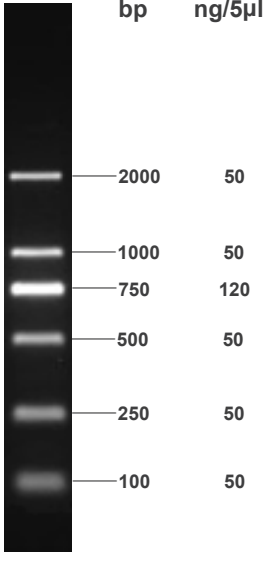
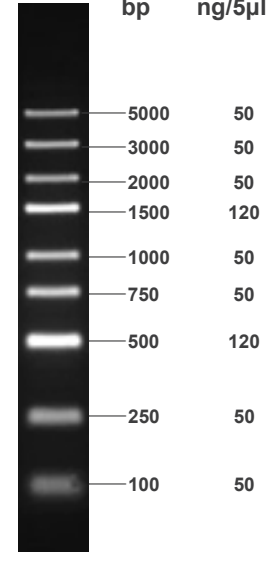
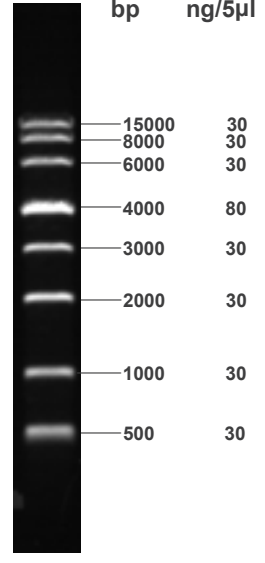
1. The product is pre-mixed with 1× loading buffer and tracking dyes, and can be directly loaded for electrophoresis.
2. Recommended gel concentration: around 1.5% agarose.
3. When performing electrophoresis using an agarose gel containing Safe Red DNA Stain, the bromophenol blue tracking band should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

Protocol

1. We recommend loading 5 µl of 100bp Plus DNA Ladder per gel lane (Adjust the sample volume according to the width of combs).
2. Using a 1.2~2% agarose (REF: EG20910) 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



 <p>2.5% Agarose 0.5x TBE Buffer</p> <table border="1"> <thead> <tr> <th>bp</th> <th>ng/5µl</th> </tr> </thead> <tbody> <tr><td>1000</td><td>40</td></tr> <tr><td>900</td><td>40</td></tr> <tr><td>800</td><td>40</td></tr> <tr><td>700</td><td>40</td></tr> <tr><td>600</td><td>40</td></tr> <tr><td>500</td><td>100</td></tr> <tr><td>400</td><td>40</td></tr> <tr><td>350</td><td>40</td></tr> <tr><td>300</td><td>40</td></tr> <tr><td>250</td><td>100</td></tr> <tr><td>200</td><td>40</td></tr> <tr><td>150</td><td>40</td></tr> <tr><td>100</td><td>40</td></tr> <tr><td>50</td><td>40</td></tr> </tbody> </table> <p>5 µl/lane 7 V/cm, 50 min</p>	bp	ng/5µl	1000	40	900	40	800	40	700	40	600	40	500	100	400	40	350	40	300	40	250	100	200	40	150	40	100	40	50	40	 <p>1.5% Agarose 0.5x TBE Buffer</p> <table border="1"> <thead> <tr> <th>bp</th> <th>ng/5µl</th> </tr> </thead> <tbody> <tr><td>1000</td><td>50</td></tr> <tr><td>800</td><td>50</td></tr> <tr><td>700</td><td>50</td></tr> <tr><td>600</td><td>50</td></tr> <tr><td>500</td><td>120</td></tr> <tr><td>400</td><td>50</td></tr> <tr><td>300</td><td>50</td></tr> <tr><td>200</td><td>50</td></tr> <tr><td>100</td><td>50</td></tr> </tbody> </table> <p>5 µl/lane 7 V/cm, 40 min</p>	bp	ng/5µl	1000	50	800	50	700	50	600	50	500	120	400	50	300	50	200	50	100	50	 <p>1.5% Agarose 0.5x TBE Buffer</p> <table border="1"> <thead> <tr> <th>bp</th> <th>ng/5µl</th> </tr> </thead> <tbody> <tr><td>3000</td><td>50</td></tr> <tr><td>2000</td><td>50</td></tr> <tr><td>1500</td><td>50</td></tr> <tr><td>1200</td><td>120</td></tr> <tr><td>1000</td><td>50</td></tr> <tr><td>900</td><td>50</td></tr> <tr><td>800</td><td>50</td></tr> <tr><td>700</td><td>50</td></tr> <tr><td>600</td><td>50</td></tr> <tr><td>500</td><td>120</td></tr> <tr><td>400</td><td>50</td></tr> <tr><td>300</td><td>50</td></tr> <tr><td>200</td><td>50</td></tr> <tr><td>100</td><td>50</td></tr> </tbody> </table> <p>5 µl/lane 7 V/cm, 45 min</p>	bp	ng/5µl	3000	50	2000	50	1500	50	1200	120	1000	50	900	50	800	50	700	50	600	50	500	120	400	50	300	50	200	50	100	50	 <p>1.4% Agarose 1x TAE Buffer</p> <table border="1"> <thead> <tr> <th>bp</th> <th>ng/5µl</th> </tr> </thead> <tbody> <tr><td>5000</td><td>40</td></tr> <tr><td>4000</td><td>40</td></tr> <tr><td>3000</td><td>40</td></tr> <tr><td>2500</td><td>100</td></tr> <tr><td>2000</td><td>40</td></tr> <tr><td>1500</td><td>40</td></tr> <tr><td>1000</td><td>40</td></tr> <tr><td>500</td><td>40</td></tr> </tbody> </table> <p>5 µl/lane 7 V/cm, 45 min</p>	bp	ng/5µl	5000	40	4000	40	3000	40	2500	100	2000	40	1500	40	1000	40	500	40
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