

1kb DNA Ladder

REF: YS0094

Storage Condition

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

Components

| Component | EG21909S | EG21909M |
|----------------|----------|----------|
| 1kb DNA Ladder | 250 µl | 5×250 µl |

Description

1kb DNA Ladder is provided with 1× Loading Buffer for tracking of sample DNA migration, contains 13 fragments: 250 bp, 500 bp, 750 bp, 1000 bp, 1500 bp, 2000 bp, 2500 bp, 3000 bp, 4000 bp, 5000 bp, 6000 bp, 8000 bp and 12000 bp. 5 µl of this product contains ~30 ng of each band, except the 1500 bp and 4000 bp fragment which contains ~80 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.

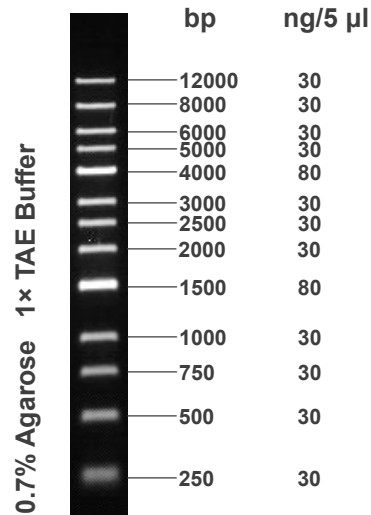
Notice

1. The product is pre-mixed with 1× loading buffer and tracking dyes, and can be directly loaded for electrophoresis.
2. Recommended gel percentage range: 0.7~0.8% TAE agarose, The concentration of the agarose gel should not above 1%. A higher percentage agarose gel will help resolve small bands. TBE is not suitable for this DNA ladder.
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


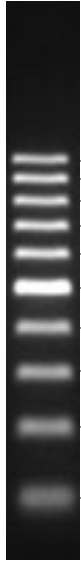

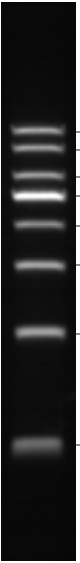

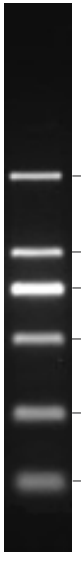
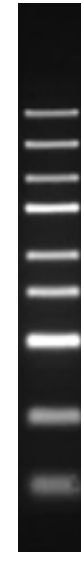
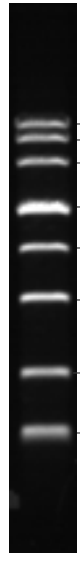
1. We recommend loading 5 µl of 1kb DNA Ladder per gel lane (Adjust the sample volume according to the width of combs).
2. Using a 0.7~1% agarose (REF: YS0243) gel and electrophorese in 1× TAE buffer, with the voltage set to 5~10 V/cm. It is important to use fresh gel & buffer.
3. Using nucleic acid stains for gel staining, then observe the bands under UV light.

Result Display



5 µl/lane

7 V/cm, 45 min

|  <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>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, 40 min</p> | bp | ng/5µl | 1000 | 50 | 900 | 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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| 50bp DNA Ladder | 100bp DNA Ladder | 100bp Plus DNA Ladder | 500bp DNA Ladder | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MG\$&((| MG\$\$- % | YS0093 | YS0246 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <p>0.7% Agarose 1x TAE Buffer</p> <table border="1"> <thead> <tr> <th>bp</th> <th>ng/5µl</th> </tr> </thead> <tbody> <tr><td>12000</td><td>30</td></tr> <tr><td>8000</td><td>30</td></tr> <tr><td>6000</td><td>30</td></tr> <tr><td>5000</td><td>30</td></tr> <tr><td>4000</td><td>80</td></tr> <tr><td>3000</td><td>30</td></tr> <tr><td>2500</td><td>30</td></tr> <tr><td>2000</td><td>30</td></tr> <tr><td>1500</td><td>80</td></tr> <tr><td>1000</td><td>30</td></tr> <tr><td>750</td><td>30</td></tr> <tr><td>500</td><td>30</td></tr> <tr><td>250</td><td>30</td></tr> </tbody> </table> <p>5 µl/lane 7 V/cm, 45 min</p> | bp | ng/5µl | 12000 | 30 | 8000 | 30 | 6000 | 30 | 5000 | 30 | 4000 | 80 | 3000 | 30 | 2500 | 30 | 2000 | 30 | 1500 | 80 | 1000 | 30 | 750 | 30 | 500 | 30 | 250 | 30 |  <p>1.2% Agarose 1x TAE Buffer</p> <table border="1"> <thead> <tr> <th>bp</th> <th>ng/5µl</th> </tr> </thead> <tbody> <tr><td>2000</td><td>50</td></tr> <tr><td>1000</td><td>50</td></tr> <tr><td>750</td><td>120</td></tr> <tr><td>500</td><td>50</td></tr> <tr><td>250</td><td>50</td></tr> <tr><td>100</td><td>50</td></tr> </tbody> </table> <p>5 µl/lane 8 V/cm, 25 min</p> | bp | ng/5µl | 2000 | 50 | 1000 | 50 | 750 | 120 | 500 | 50 | 250 | 50 | 100 | 50 |  <p>1.2% 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>50</td></tr> <tr><td>3000</td><td>50</td></tr> <tr><td>2000</td><td>50</td></tr> <tr><td>1500</td><td>120</td></tr> <tr><td>1000</td><td>50</td></tr> <tr><td>750</td><td>50</td></tr> <tr><td>500</td><td>120</td></tr> <tr><td>250</td><td>50</td></tr> <tr><td>100</td><td>50</td></tr> </tbody> </table> <p>5 µl/lane 7 V/cm, 30 min</p> | bp | ng/5µl | 5000 | 50 | 3000 | 50 | 2000 | 50 | 1500 | 120 | 1000 | 50 | 750 | 50 | 500 | 120 | 250 | 50 | 100 | 50 |  <p>0.7% Agarose 1x TAE Buffer</p> <table border="1"> <thead> <tr> <th>bp</th> <th>ng/5µl</th> </tr> </thead> <tbody> <tr><td>15000</td><td>30</td></tr> <tr><td>8000</td><td>30</td></tr> <tr><td>6000</td><td>30</td></tr> <tr><td>4000</td><td>80</td></tr> <tr><td>3000</td><td>30</td></tr> <tr><td>2000</td><td>30</td></tr> <tr><td>1000</td><td>30</td></tr> <tr><td>500</td><td>30</td></tr> </tbody> </table> <p>5 µl/lane 7 V/cm, 40 min</p> | bp | ng/5µl | 15000 | 30 | 8000 | 30 | 6000 | 30 | 4000 | 80 | 3000 | 30 | 2000 | 30 | 1000 | 30 | 500 | 30 | | | | | | | | | | | | | | | | | | | | |
| bp | ng/5µl | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 8000 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6000 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 15000 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8000 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6000 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4000 | 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3000 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1kb DNA Ladder | FY2000 DNA Marker | FY5000 DNA Marker | FY15000 DNA Marker | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| YS0094 | YS0095 | YS0096 | YS0097 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |