

**Product Name:** 10x DNA Loading Buffer

**Cat. #:** T5018

Store at 4°C Ship at RT Shelf Life: 12 months

**Size:** Supplied as a 10X solution, 5 x 1 ml

**Description:**

DNA Loading Buffer is a complete solution for the preparation of DNA samples prior to agarose gel electrophoresis and polyacrylamide gel electrophoresis. This optimized loading buffer prevents DNA degradation during the electrophoresis run.

The loading buffer contains two tracking dyes, bromophenol blue and Xylene cyanol that allow for tracking the progress of electrophoresis. In 1% agarose gels, Xylene cyanol typically migrates at about the same rate as a 4000 base pair DNA fragment, and bromophenol blue migrates at the same rate as a DNA fragment of approximately 500 base pairs. Xylene cyanol or tracking dye on a 6% polyacrylamide gel migrates at the speed of a 140 base pair DNA fragment. On 20% denaturing (7 M UREA) polyacrylamide PAGE gel electrophoresis Xylene cyanol migrates at about a rate of 25 base oligonucleotide.

Glycerol is included in the loading buffer to ensure DNA samples remain in the gel wells after loading. 10 X loading buffer contains 0.1 M Tris-HCl, 0.2% SDS, 0.1% Bromophenol blue, 0.1% Xylene cyanol, 30% Glycerol. This product is for in vitro research use only

**Direction for use:**

Mix 1-volume DNA loading buffer with a 9-volume DNA sample, loading to agarose or polyacrylamide gel.

**RELATED PRODUCTS:**

Mouse Tail DNA Extraction Kit (# T605)      TE Buffer (# T5009)      QPCR Super kit (# T4001)  
 Tissue DNA Extraction kit (# T6006)      TAE Buffer-10x (# T5006)

Customers are also interested in.

<i>Better than Matrigel</i>	<b>Real 3D</b> cell gel, 3-stiffness for different type cells # P720
<i>Mouse Tail DNA Extract</i>	20 min. fast. Accurate & consistent. No use of organic solvents. Ready for PCR Cat.# T605
<i>1 drop do PCR Mix</i>	PCR Master Mix - easy dripping Cat.# W2599-5

<i>Thermophilic Reverse Transcriptase</i>	with optimal temperatures at 60-62°C, it can be heat-inactivated at ≥90°C Cat.# W140  1-Step 2x RT-PCR Master Mix-SYBR Cat.# W141, W142, W143 Make RNA analysis <b>easy</b> as DNA analysis.
<i>2x Flash HS PCR Mix (Dye)</i>	Fast extension rate (5-15 sec/kb) and fast HotStart # W3007-1
<i>2x Super Pfx MasterMix</i>	Strong amplification ability and fast (4-6 kb/min) # W2965-1
<i>Lentiviral Expression Vectors</i>	<b>4 promoters</b> : SFFV, CAG, CMV, EF1 & 4 selections
<i>10x Virus Titer-up Boost</i>	Regulates packaging in transcriptional level <b>Increases</b> Lenti/Retro viral particles up to 10-fold Cat.# P906 / P909
<i>Water Bath Treatment</i>	1 tablet / treatment per week Cat.# T20
<i>Simple and Reliable</i>	SV40T / hTERT <i>Cell Immortalization Kits</i>
<i>Pure Plasmid Miniprep</i>	High adsorption efficiency of plasmid DNA Cat. # W0500-50