

DNA Loading Buffer (10X) (Catalog# TBS5018)

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, bromophenol blue migrates at the same rate as a DNA fragment of approximately 500 base pair. 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 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, 0.6% SDS, 0.1% Bromophenol blue, 0.1% Xylene cyanol, 30% Glycerol.

Directions for Use: Mix 1-volume DNA loading buffer with 9-volume DNA sample, loading to agarose or polyacrylamide gel.

Storage: Supplied as a 10X solution, 5x 1 mL. Store at 4°C or room temperature.

This product is for *in vitro* research use only and is not intended for use in humans or animals.

This product is not intended for use as a therapeutic or in diagnostic procedures.

CERTIFICATE OF NON-HAZARDOUS MATERIAL

Identification:

Product name: 10X DNA Loading Buffer

Product Catalog: TBS5018

Manufacturer Supplier:

4062 Fabian Way, Suite 1, Palo Alto,
CA 94303 USA

1-650-917-9269 TEL

1-650-618-5498 FAX

Composition/Information on Ingredients:

Buffer Name: DNA Loading Buffer (10x)

Ingredient Name	CAS#	Percent
Tris base	77-86-1	<1%
SDS	151-21-3	<1%
Glycerol	56-81-5	<30%
Bromophenol blue	115-39-9	<1%
Xylene cyanol	1650-17-1	<1%

Hazard Identification:

Materials listed above are not considered hazardous, or are not present above 1%, or are not carcinogens above 0.1% as defined in 29 CFR 1910.1200, the OSHA Hazard Communication Standard. Therefore, Material Safety Data Sheets are not required. We recommend treating all chemicals with caution.

Other Information:

This compound is sold only for research use by personnel familiar with chemicals and who are well trained in good laboratory habits, such as avoiding spills, keeping hands clean at all times and not rubbing eyes with hands while working in the laboratory. No other use is intended. The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide for experienced personnel, Tribioscience Inc. shall not be held liable for any damage resulting from the handling of or from contact with the above product. The burden of safe use of this material rests entirely with the user.

RELATED PRODUCTS:

TAE Buffer-10x (catalog# TBS5006)

TE Buffer (catalog# TBS5009)

Tissue DNA Extraction kit (catalog# TBS6006)

Mouse Tail DNA Extraction Kit (catalog# TBS2005)

QPCR Super kit (catalog# TBS4001)