

6X DNA Loading Buffer

<u>Product name</u>	<u>Product Code</u>	<u>Kit packing</u>
6X DNA Loading Buffer	ML015-1ML	1ML
	ML015-6X1ML	6X1ML

Introduction

6X DNA Loading Buffer is a pre-mixed solution used to prepare DNA markers and samples for loading on agarose or polyacrylamide gels. It is a pre-mixed loading buffer containing two different dyes namely bromophenol blue and xylene cyanol FF for visual tracking of DNA migration during agarose gel electrophoresis. The presence of glycerol in the loading buffer ensures that the DNA sample is loaded properly in the well.

Description

The 6X DNA Loading Buffer is intended for analysis of DNA samples including genomic and plasmid DNA, PCR product, restriction fragments etc. on agarose or polyacrylamide gels. One part of the 6X gel Loading Buffer is mixed with 5 parts of DNA sample (1:5 ratio) to allow tracing of the sample and facilitates loading of the samples into the wells of horizontal and vertical agarose and polyacrylamide gels. Also, the two dyes migrate in the same direction as the nucleic acids, hence serving as indicators of the electrophoretic progress of the nucleic acid or protein samples. Bromophenol blue is a faster moving dye and it migrates at approximately 300 bp on a standard 1% TBE agarose gel while xylene cyanol migrates at approximately 4kb equivalence.

Application

6X DNA Loading Buffer is mixed with DNA samples for use in agarose gel electrophoresis. It is used as a two-color tracking dye for DNA migration during electrophoresis. It does not mask DNA band during gel exposure to UV light.

Composition

The 6X DNA Loading Buffer contains Bromophenol Blue, Xylene Cyanol FF and glycerol.

Properties:

Appearance	:	Blue Colored solution
Clarity	:	Clear and free of particles
DNase & RNase	:	None detected
Suitability test	:	This solution has been tested and is suitable for use in gel electrophoresis

Storage conditions

The 6X DNA Loading Buffer has to be stored at 2-8°C. Under recommended condition, the reagent is stable for 24 months.

Please refer disclaimer Overleaf.

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Warning and Precautions

Not for Medicinal Use. Read the SDS carefully before beginning the protocol. Wear protective gloves/protective clothing/eye protection/face protection. Follow good clinical laboratory practices while handling clinical samples. Standard precautions should be followed as per established guidelines. Safety guidelines may be referred in safety data sheets of the product.

Performance and Evaluation

Performance of the solution is expected when the solution is stored at recommended temperature and within the expiry period.

Safety Information

The 6X Gel Loading Buffer is for laboratory use only, not for drug, household or other uses. Take appropriate laboratory safety measures and wear gloves and safety goggles when handling. Not compatible with disinfecting agents containing bleach. Please refer the Safety Data Sheet (SDS) for information regarding hazards and safe handling practices.

Technical Assistance

At HiMedia we pride ourselves on the quality and availability of our technical support. For any kind of technical assistance, mail at mb@himedialabs.com.

Symbol

	Manufacturer		Do not use if package is damaged
	Batch code		Temperature limit
	Date of manufacture (YYYY-MM)		Consult instructions for use
	Use-by date (YYYY-MM)		Catalogue number

Identification No.: PIML015

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