

5X Tris-Glycine-SDS Gel Running Buffer

<u>Product Name</u>	<u>Product Code</u>	<u>Kit Packing</u>
5X Tris-Glycine-SDS	ML041-500ML	500ml
Gel Running Buffer	ML041-2X500ML	2x500ml
	ML041-10X500ML	10x500ml

Introduction:

5X Tris-Glycine-SDS Gel Running Buffer is the most commonly used as the electrophoresis buffer during the stacking and resolve process of sodium dodecyl sulfate - polyacrylamide gel electrophoresis (SDS-PAGE). This buffer is used as both anode and cathode buffer. This buffer is supplied as 5X concentrated stock solution and should be diluted to 1X with deionized water before usage.

Description:

SDS-PAGE is a technique for separating proteins based on their ability to move within an electrical current, which is a function of the length of their polypeptide chains or of their molecular weight. The most widely used gel system for separating a broad range of proteins by SDS-PAGE is the Laemmli system (1970) which uses Tris-Glycine gels comprised of a stacking gel component and the resolving gel where varying acrylamide gel percentages are used to separate the proteins based on their mass weight. This classic system uses a discontinuous buffer system where the pH and ionic strength of the buffer used for running the gel (5X Tris-Glycine-SDS Gel Running Buffer, pH 8.3) is different from the buffers used in the stacking gel (pH 6.8) and resolving gel (pH 8.8).

Application:

5X Tris-Glycine-SDS Gel Running Buffer is used as the electrophoresis buffer during SDS-PAGE for separation and analysis of protein samples.

Composition:

5X Tris-Glycine-SDS Gel Running Buffer is composed of 125mM Tris, 1.25M Glycine, 0.5% SDS and the pH is adjusted to 8.3.

Properties:

Appearance	:	Colorless solution
Clarity	:	Clear and free of particles
DNase & RNase	:	None detected
pH	:	8.2 - 8.4
Suitability test	:	This solution has been tested and is suitable for use in SDS-PAGE

Please refer disclaimer Overleaf.

Storage conditions:

5X Tris-Glycine-SDS Gel Running Buffer has to be stored at 2 - 8°C. Under recommended condition, the reagent is stable for 12 months.

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 5X Tris-Glycine-SDS Gel Running 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.: PIML041

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Disclaimer :

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