

5X Tris-Glycine-SDS Gel Running Buffer

Product Name	Product Code	Kit Packing
5X Tris-Glycine-SDS Gel Running Buffer	ML041-2X500 ML ML041-10X500 ML	2X500 ML 10X 500 ML

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 0.5 M Tris, 1.92 M 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
Bioburden	: None detected
Suitability test	: This solution has been tested and is suitable for use in SDS-PAGE

Storage conditions: 5X Tris-Glycine-SDS Gel Running Buffer has to be stored at 2 - 8^o C.

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.

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