

## 10X Tris-Glycine-SDS Gel Running Buffer

<u>Product Name</u>	<u>Product Code</u>	<u>Kit Packing</u>
10X Tris-Glycine-SDS Gel Running Buffer	ML042-2X500 ML ML042-10X500 ML	2X500 ML 10X 500 ML

**Introduction:** 10X 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 10X 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 (10X 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:** 10X Tris-Glycine-SDS Gel Running Buffer is used as the electrophoresis buffer during SDS-PAGE for separation and analysis of protein samples.

**Composition:** 10X 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:** 10X Tris-Glycine-SDS Gel Running Buffer has to be stored at 15 - 25<sup>o</sup> 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](mailto:mb@himedialabs.com).

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