

Technical Datasheet

Product Name: Tris-Glycine SDS Running Buffer (Pre-mix Powder)

Catalog Number: BPBOI013

Concentration: 10X

Introduction:

Tris-Glycine SDS Running Buffer is a staple in SDS-PAGE (Sodium Dodecyl Sulfate-Polyacrylamide Gel Electrophoresis), used for the separation of proteins based on their molecular weight. This buffer, provided in a convenient pre-mix powder form, ensures precise and consistent results by allowing easy reconstitution into a 5L 10x solution. The buffer is essential for denaturing electrophoresis, where proteins are uniformly separated in the gel matrix.

Product Description:

The Tris-Glycine SDS Running Buffer is composed of Tris base, glycine, and SDS (Sodium Dodecyl Sulfate). Once dissolved in distilled water, it provides a stable pH environment (approximately 8.3) crucial for the denaturation and uniform migration of proteins during SDS-PAGE. The pre-mix powder is designed for convenience, ensuring that the buffer can be prepared quickly and accurately, reducing preparation time and minimizing errors.

Applications:

BioPioneer's Tris-Glycine SDS Running Buffer (Pre-mix Powder) is versatile and suitable for a range of applications:

- **SDS-PAGE:** Ideal for separating denatured proteins by molecular weight.
- **Protein Electrophoresis:** Suitable for both analytical and preparative protein electrophoresis.
- **Western Blotting:** Commonly used as the running buffer for transferring proteins to membranes in Western blotting.

Composition:

The pre-mix powder is made from high-purity Tris base, glycine, and SDS. It is formulated to yield 5L of 10X Tris-Glycine SDS Running Buffer when dissolved in distilled water.

Preparation Instructions:

To prepare the 10X running buffer, dissolve the entire contents of the pre-mix powder in 4 litres of distilled water. Stir until completely dissolved & adjust the volume up to 5 litres. Ensure the solution is clear before use.

Storage Conditions:

Store the pre-mix powder in a cool, dry place at room temperature (15-25°C). Once reconstituted, the 1X solution can be stored at room temperature for short-term use or at 4°C for longer storage.

Warning and Precautions:

Not intended for medicinal use. Review the Safety Data Sheet (SDS) thoroughly before starting the protocol. Always wear protective gloves, clothing, eye protection, and face protection. Adhere to good clinical laboratory practices when handling clinical samples, and follow standard precautions as outlined in established guidelines. For detailed safety procedures, consult the product's Safety Data Sheet.

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Safety Information:

The Tris-Glycine SDS Running Buffer (Pre-mix Powder) is intended solely for laboratory applications and should not be used for pharmaceuticals, household purposes, or other non-laboratory uses. Always observe proper laboratory safety protocols, including wearing gloves and safety goggles when handling the buffer. It is not compatible with bleach-containing disinfectants. For details on hazards and safe handling procedures, please consult the Safety Data Sheet (SDS).

Technical Assistance:

At BioPioneer, we are committed to providing top-notch technical support and ensuring its accessibility. For any technical assistance, please email us at qc@biopioneer.in.