

2.5X Tris-SDS Buffer (pH 8.8)

<u>Product Name</u>	<u>Product Code</u>	<u>Kit Packing</u>
2.5X Tris-SDS Buffer (pH 8.8)	ML039-500 ML	500ml
	ML039-2X500ML	2x500ml
	ML039-10X500ML	10x500ml

Introduction:

2.5X Tris-SDS Buffer, pH 8.8 is used to prepare buffer for separating gel during SDS-PAGE (SDS-Polyacrylamide gel electrophoresis). It forms separation zone of smaller pore size and high alkaline medium. This buffer is supplied as a 2.5X stock.

Description:

Tris-SDS Buffer (pH 8.8) is used in the preparation of separating or resolving gel mix while performing SDS-PAGE which is used for the separation of proteins through electrophoresis and it is based on the fact that charged molecules will migrate through a matrix upon application of an electrical field. The matrix for protein electrophoresis separation is polyacrylamide. SDS-PAGE uses two types of buffer systems: the continuous buffer system and the discontinuous buffer system. In the continuous buffer system the pH of the gel matrix remains constant throughout the separation. In contrast, the discontinuous buffer system consists of a narrow layer of stacking gel (of large pore size and acidic pH) above the main separating or resolving gel matrix of alkaline pH (pH 8.8). The stacking gel concentrates the protein sample before entering the separating gel and hence enhancing resolution. SDS-PAGE with a discontinuous buffer system is the most popular electrophoresis technique used to analyze polypeptides.

Application:

The 2.5X Tris-SDS buffer (pH 6.8) is used in protein and nucleic acid electrophoresis. The solutions required for preparation of a 10ml resolving gel for Tris-Glycine-SDS-PAGE are tabulated as follows:

	8%	10%	12%
30% Acrylamide:Bis Solution (29:1)	2.67 ml	3.3 ml	4 ml
2.5 x Tris-SDS Buffer (pH8.8)	4 ml	4 ml	4 ml
Water	3.33 ml	2.7ml	2 ml
Total volume	10 ml	10 ml	10 ml
10% Ammonium persulfate	50 ul	50 ul	50 ul
TEMED	5 ul	5 ul	5 ul

Storage conditions:

The 2.5X Tris-SDS Buffer (pH 8.8) has to be stored at 2-8^o C. Under recommended condition, the reagent is stable for 12 months.

Properties:

Appearance : Colorless solution
Clarity : Clear and free of particles
pH : 8.7 - 8.9
DNase & RNase : None detected
Suitability test : This solution has been tested and is suitable for use in protein electrophoresis

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 2.5X Tris-SDS Buffer (pH 8.8) 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.



Storage temperature



Do not use if package is damaged



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