Tris-SDS Buffer (pH 6.8)

Product Name	Product Code	Kit Packing
Tris-SDS Buffer (pH 6.8)	ML040-2X500 ML	2X500 ml
	ML040-10X500ML	10X500 ml

Introduction: Tris-SDS Buffer (pH 6.8) is used to prepare buffer for stacking gel during SDS-PAGE (SDS-Polyacrylamide gel electrophoresis). It forms discontinuous stacking gel with a large pore size region for concentrating protein sample before entering separating zone. This buffer is supplied as a 5X stock.

Description: Tris-SDS Buffer (pH 6.8) is used in the preparation of stacking gel mix while performing SDS-PAGE. It 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, 6.8) above the main separating gel matrix of alkaline pH. The stacking gel contains chloride ions, which migrate more quickly through the gel than the protein sample, while the electrophoresis buffer contains glycine ions, which migrate more slowly. The protein molecules are trapped in a sharp band between these ions. The stacking gel concentrates the protein sample before entering the separating gel which enhances the resolution. SDS-PAGE with a discontinuous buffer system is the most popular electrophoresis technique used to analyze polypeptides.

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

	5%
30% Acrylamide:Bis Solution (29:1)	1.67 ml
5 X Tris-SDS Buffer (pH 6.8)	2 ml
Water	6.33 ml
Total volume	10 ml
10% Ammonium persulfate	50 ul
TEMED	5 ul

Storage conditions: The Tris-SDS Buffer, pH 6.8 has to be stored at 2-8^0 C.

Technical Assistance

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