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Datasheet for ABIN5706383

10X Tris-Borate-EDTA TBE Buffer

Overview

Quantity: 4 L

Product Details

Purification: This product was aseptically filtered through a Millipore 0.22 micron filter into clean, pre-sterilized containers. The product was tested on trypticase soy agar for 24 hours, 48 hours and 72 hours and was found to be negative for bacteria.

Sterility: Aseptic filtered

Application Details

Application Notes: Application Note: This product is a concentrated stock solution and should be diluted appropriately with distilled, deionized water or equivalent to its final working concentration. 10X Tris-Borate EDTA (TBE) consists of 0.9 M Tris-Borate, 0.01 M EDTA at a pH of 8.3. Meticulously prepared using ultra pure reagents dissolved in highly polished pharmaceutical grade deionized water.

Comment: Synonyms: buffer containing boric acid and EDTA
Background: TBE is often used in procedures involving nucleic acids, the most common being electrophoresis in molecular biology. Tris-acid solutions are effective buffers for slightly basic conditions, which keep DNA deprotonated and soluble in water. EDTA is a chelator of divalent cations, particularly of magnesium (Mg²⁺). As these ions are necessary co-factors for many enzymes, including contaminant nucleases, the role of the EDTA is to protect the nucleic acids against enzymatic degradation. But since Mg²⁺ is also a co-factor for many useful DNA-modifying enzymes such as restriction enzymes and DNA polymerases.

Restrictions: For Research Use only

Handling

Format:	Liquid
Concentration:	10 X
Buffer:	Buffer: See application note. Stabilizer: None
Preservative:	Without preservative
Storage:	RT
Expiry Date:	6 months