

Datasheet for ABIN5706383

10X Tris-Borate-EDTA TBE Buffer[Go to Product page](#)

Overview

Quantity: 4 x 1 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 (Mg^{2+}). 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 Mg^{2+} 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 |