

Datasheet for ABIN925559

Tris-Borate-EDTA TBE Buffer (10X)

Overview

Quantity: 1 L

Application: Agarose Gel Electrophoresis (AGE)

Product Details

Characteristics: 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.

Synonyms: buffer containing boric acid and EDTA

Sterilization: Sterile Aseptic Filter

Application Details

Application Notes: 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.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 10 X

Storage: RT

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Publications

Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)