

Product Information

Cat No. HBT014589

Product name- 10X TBE Buffer (Tris, borate, and ethylenediaminetetraacetic buffer)

Pack Size: 500 ml

Concentration- 10X

Storage: 20-25 °C

Product Description

Tris, borate, and ethylenediaminetetraacetic (TBE) buffer is routinely used to conduct DNA and RNA agarose gel electrophoresis. It comprises a weak acid in neutral and anionic forms (e.g., COOH and COO⁻ species) and a weak base, Tris, which is either in neutral or cationic forms (Tris-NH₂ and Tris-NH₃⁺). These ions buffer the pH, maintain a low conductivity medium, and transfer the electrical current. Ethylenediaminetetraacetic (EDTA) is used to chelate Mg²⁺ ions and inactivate the potential DNA nucleases. TBE is also used to perform a good resolution of DNA fragments that slightly enhances the separation of smaller fragments. It also protects nucleic acids from enzymatic degradation. The 10X TBE Buffer contains 890 mM Tris base, 890 mM Boric Acid and 20 mM EDTA with pH adjusted to 8.3.

Preparation Instructions

Preparation of 1× TBE working buffer: Dilute the 10× concentrated buffer 10-fold with molecular biology grade water

Quality control

The quality of the HB 10x TBE buffer is tested on lot to lot basis to ensure the consistent product quality

Use Restrictions

For Research use only. Not for Use in Diagnostic Procedures