



TBE solution (10X)

For research use only

Catalogue number: BI-2402

Product Description

TBE (Tris/Borate/EDTA) Buffer is commonly used in nucleic acid electrophoresis. This solution is effective under slightly basic conditions, which keeps DNA deprotonated, water-soluble, and protected from degradation. TBE buffer is suitable for analyzing DNA fragments from PCR amplification, DNA isolation protocols, or DNA cloning experiments. It is adapted for separating smaller DNA fragments (less than 1500 bp) on a 0.8% agarose gel. TBE has a greater buffering capacity and will give sharper resolution than TAE.

Specification

Concentrated: 10 X

Gel Compatibility: Agarose gels, Acrylamide gels

Shelf life: 12 months

Notes

- Buffer concentrate should be diluted to a working concentration of 1X before use.
- For each electrophoresis, fresh 1X or 0.5 X buffer should be used.
- TBE buffer is prone to precipitation over time. Precipitation may adversely affect performance.
- Not for use in diagnostic procedures.
- Respect storage conditions of the product.
- Do not use the product after its expiry date.
- Wear clothes adapted to the manipulation of the product to avoid contamination (e.g. gloves, mask, and hygiene cap).
- In the case of using the product in several steps, it's recommended to fill the remaining solution in 50ml sterile tubes and close tightly for avoiding from contamination.
- For research use only.

Applications

- Running buffer for agarose and polyacrylamide gels
- Preparation buffer for Agarose and polyacrylamide gels.
- Native and denaturing RNA analysis
- Northern blotting

Storage

- Store at room temperature

References

1. Brody, J.R.; Kern, S.E. 2004. "History and principles of conductive media for standard DNA electrophoresis". *Anal Biochem.* 333 (1): 1–13. doi:10.1016/j.ab.2004.05.054.PMID 15351274.