
TBE Buffer (5×, RNase Free)

Cat. No.: T1518783 | Pack size: 500 mL | Storage: Room temperature

Overview

Tris-Borate-EDTA Buffer (TBE) is a commonly used nucleic acid electrophoresis buffer. The composition of 0.5× TBE working solution is: 45 mM Tris-borate, 1 mM EDTA (pH 8.0), with moderate buffering capacity, suitable for separating small DNA fragments (<2000 bp). The 0.5-1× TBE working solution offers stronger buffering capacity and can be selected according to experimental requirements.

TBE Buffer (5×, RNase Free) is a 5-fold concentrated solution prepared with DEPC-treated water. It primarily contains 450 mM Tris-borate and 10 mM EDTA. It is mainly used for RNA electrophoresis. Before use, dilute to a 0.5× working solution with DEPC-treated water.

This reagent is for research use only. Not for use in diagnostic procedures or other purposes.

Procedure (For Reference Only)

Dilute the product to a 0.5× working solution with DEPC-treated water before use.

Notes

- 10× TBE stock solution has poor stability and is prone to precipitation. The 5× TBE concentrated solution is recommended for more stable storage.
- Routinely use 0.5× TBE as the working solution. For applications requiring stronger buffering capacity, 0.5-1× TBE working solution can be used.
- Strictly avoid RNase contamination throughout the entire experimental procedure.
- Please wear laboratory appropriate attire and disposable gloves during operation to ensure experimental safety.
- Use the reagent as soon as possible after opening and keep it sealed to avoid affecting experimental results.

Specifications

Attribute	Value
Synonyms	5× Tris-Borate-EDTA Buffer (RNase-Free) 5× TBE Electrophoresis Buffer (RNase Free) 5× TBE Concentrate (RNase-Free) Tris-Borate-EDTA Buffer (5×, RNase Free)
Specifications & Purity	BioReagent, Suitable for molecular biology, RNase free, for NA electrophoresis, 5×
Stability And Storage	Store at room temperature long term (12 months).
Storage Conditions	Room temperature
Shipped In	Normal
Grade	BioReagent, for NA electrophoresis, RNase free, Suitable for molecular biology

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Whether you have a technical question, need help with a quotation, or want to inquire about an order, our regional teams are ready to assist. Please contact the office for your region; for general inquiries, the North American office is the corporate primary.

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Limitations & Disclaimer

- For Research Use Only (RUO). Not for use in human or animal diagnostics, therapeutics, or in vivo applications. Not for food, cosmetic, or household use.

- This product is not a CE-marked in vitro diagnostic device under IVDR (EU) 2017/746 and is not an FDA-cleared device under 21 CFR. Use is restricted to verified businesses, institutions, and qualified professionals for research and development purposes.
- Where any kit component is classified as hazardous under CLP (EC) 1272/2008 or OSHA HCS (29 CFR 1910.1200), the product Safety Data Sheet (SDS) takes precedence over this document for handling, storage, and disposal information.
- Performance depends on sample type, sample condition, handling, and operator technique. Users are responsible for validating the product for their specific application.
- Aladdin product labels, SDS, COA, and approved specifications take precedence over this document. If product formulation, label, SDS, storage condition, pack size, or quality specifications change, this document would be reviewed and reissued.