

TAE Buffer (50×, Powder)

Cat. No.: T1519717 | Pack size: 1 L | Storage: Room temperature

Overview

Tris-Acetate-EDTA Buffer (TAE) is the most commonly used buffer for DNA electrophoresis in laboratories.

The standard composition of 1× TAE working solution is: 40 mM Tris-Acetate, 1 mM EDTA (pH 8.0).

TAE Buffer (50×, Powder) is primarily composed of 2 M Tris-Acetate and 50 mM EDTA. Before use, it should be dissolved in distilled or deionized water to prepare a 50× concentrated stock solution. This stock solution is then diluted to 1× for use as the working solution.

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

Components

T1519717	Component	1 L	Storage
T1519717A	Reagent A	1 EA	RT.
T1519717B	Reagent B	1 EA	RT.

Procedure (For Reference Only)

1. Preparation of 50× TAE Concentrated Stock Solution

Take approximately 700 mL of distilled or deionized water.

Add Reagent A and Reagent B sequentially, stirring thoroughly until completely dissolved.

Bring the final volume up to 1000 mL with water. This yields the 50× TAE Buffer stock solution.

2. Preparation of Working Solution

Dilute the prepared 50× TAE Buffer stock solution to 1× for use in DNA electrophoresis experiments.

Notes

- Reagent A is provided as a powder. Reagent B is liquid at room temperature but may solidify at lower temperatures; it can be dissolved by warming in a water bath if needed.

- If the single-use volume is small, it is recommended to aliquot the reagent after preparation to reduce contamination risk from repeated opening.
- 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 subsequent experimental results.

Specifications

Attribute	Value
Specifications & Purity	BioReagent, Suitable for molecular biology, for NA electrophoresis, 50×
Storage Conditions	Room temperature
Shipped In	Normal

Contact & Global Offices

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.
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