TBE Buffer (10X)

Catalog Numbers AM9865, AM9863, AM9864

Pub. No. MAN0018494 Rev. A.0

WARNING! Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from **thermofisher.com/support**.

Product description

10X TBE is a pH-adjusted blend of ultrapure-grade Tris buffer, ACS-reagent-grade Boric Acid, and EDTA which, comes as a crystalline powder (Cat. No. AM9864) or liquid concentrate (Cat. Nos. AM9863 and AM9865) which are reconstituted to a 1X working solution.

Contents and storage

Contents	Catalog No.	Quantity	Appearance	Storage conditions
TBE Buffer (10X)	AM9863	1 L	Colorless liquid	Store at room temperature. Protect
	AM9864	10 pack ^[1]	White crystalline powder	from moisture.
	AM9865	4 × 1 L	Colorless liquid	

^[1] Each packet is reconstituted to 1 L of 10X TBE buffer upon addition of water.

Product specifications

1X concentration:	89 mM Tris, 89 mM borate, 2 mM EDTA		
pH at 25°C:	8.0-8.5		
MW of components:	 Tris base, 121.14 g/mol Boric acid, 61.83 g/mol EDTA, 372.3 g/mol 		
Usage:	 Used in nucleic acid gel electrophoresis as a buffer so that DNA is deprotonated and soluble in water. Used for electrophoresis with higher voltage or longer runs time due to better buffering capacity. 		

Prepare 10X TBE from powder

One packet of 10X TBE powder makes 1 liter of 10X TBE buffer concentrate upon addition of water.

- 1. Fill a graduated cylinder or beaker with approximately 600 mL of distilled water and place a magnetic stir bar into the container.
- 2. Place the container on a stir plate and slowly add the contents of 1 package of 10X TBE to the water.
- 3. Mix the solution until the TBE is completely dissolved, then add distilled water to bring the final volume to 1 L.

Prepare 1 L 1X TBE

Prepare 1X TBE from 10X TBE concentrate. Store 1X TBE at room temperature.

- Check the 10X TBE concentrate for salt precipitation before each use. If necessary, re-dissolve any precipitate by warming the solution at 37°C, then cool back down to 25°C before use.
- 2. Dilute 100 mL of 10X TBE with 900 mL of deionized or distilled water. Label as 1X TBE.

Limited product warranty

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For descriptions of symbols on product labels or product documents, go to thermofisher.com/symbols-definition.

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