ambion
by life technologies

10X TBE Ultra Pure MB Grade

Catalog Number AM9865, AM9863, AM9864

Pub. No. 4386655 **Rev.** B

Contents	Catalog number	Appearance	Quantity	Storage conditions
10X TBE Buffer Ultra Pure MB Grade	AM9863	Colorless liquid	1 L	Store at room temperature. Protect from moisture.
	AM9864	White crystalline powder	10 pack (each packet makes 1 L upon addition of water)	
	AM9865	Colorless liquid	4 x 1 L	

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 **www.lifetechnologies.com/support**.

Product description

10X TBE is a pH-adjusted blend of ultra-pure-grade Tris buffer, ACS-reagent-grade Boric Acid, and EDTA which, when reconstituted (Cat. no. AM9864) or diluted (Cat. nos. AM9863 and AM9865) to a 1X working concentration, results in a 89 mM Tris, 89 mM Borate, and 2 mM EDTA solution.

Molecular Weight:

- Tris buffer component: 121.14
- Boric acid component: 61.83
- EDTA component: 372.3

Chemical Analysis: The pH of 1X TBE at 25°C is 8.0–8.5.

Using 10X TBE

Tris-Borate-EDTA (TBE) buffers are used in general applications such as agarose and acrylamide gel electrophoresis.

Liquid TBE: Dilute the 10X TBE solution to the desired concentration before use.

Crystalline TBE: One packet of 10X TBE makes 1 liter of 10X TBE buffer upon addition of water. To make 1 L of 10X TBE from crystalline TBE:

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. Continue to mix until the TBE is completely dissolved, then add distilled water to bring the final volume to 1 L.

Quality control

Nonspecific endonuclease activity: A sample is incubated with supercoiled plasmid DNA and analyzed by agarose gel electrophoresis.

Exonuclease activity: A sample is incubated with labeled double-stranded DNA, followed by PAGE analysis.

RNase activity: A sample is incubated with labeled RNA and analyzed by PAGE.

Functional testing: Molecular weight markers and plasmid DNA are run on a 1% Agarose-LE gel using 1X TBE. All bands appear sharp and intact.

Limited product warranty

For Research Use Only. Not for use in diagnostic procedures.

The information in this guide is subject to change without notice.

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