

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

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