

DATA SHEET

Version: 3
Revision date: 02/06/2025

1. Identification

Product name	Tris-Borate-EDTA (TBE) Buffer pH 8.3 (10X), Sterile 1000 mL (10X solution)
Cat. No	BR0030

2. Description

TBE and TAE are the most commonly used buffers for DNA and RNA polyacrylamide gel electrophoresis. Both buffers are useful because they have a basic pH, this allowing migrations of the DNA through the gel toward the positive anode. TBE and TAE buffers are used for the analyses of DNA products resulting from PCR amplification, DNA purification, or DNA cloning experiments. TBE has high resolution for separating smaller DNA fragments but the recovery of DNA from gel is complicated. TAE has a low ionic strength and buffering ability, is used to separating DNA larger than 1500 pb and easily recover the DNA from gel.

3. Specifications

Chemicals: Analytical grade.

RNAse/DNAse activity: non-detectable

Format: Liquid

Sterilization: purified using a 0.22 µm filtration process [aseptically filled]

Composition (1X): 0.089M Tris-Borate, 0.002M EDTA

Direction of use: Dilute 10x solutions 10:1 to make a 1x working solution.

The pH should be 8.3 ± 0.2 at 25°C.

- The pH of the solution may require slight adjustment.
- Adjust pH with 1N HCl (if pH is high) or 1N NaOH (if pH is low).

4. Shipping and Storage specifications

TBE Buffer is shipped at room temperature. Store the product in a dry place at room temperature.

5. Applications

- Running buffer and gels for RNA analysis native and denaturing
- Polyacrylamide and agarose gels
- Nucleic acid electrophoresis
- Transfer buffer in Northern Blotting

6. Quality

Manufactured in an **ISO 13485:2016 and GMP-certified facility**, located in Boecillo, Valladolid (Spain), under ISO9001:2016 procedures to ensure the highest quality standards.

7. Further information

Product Use Limitation	This product is developed, designed and sold exclusively only for research purposes use. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.
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