

DATA SHEET

Version: 3
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1. Identification

Product name Tris-Acetate-EDTA (TAE) Buffer (pH 8.3), Sterile**Cat. No** **BR0020** 1L (10X)
BR0031 1L (50X)

2. Description

TAE is a high quality, reliable and versatile buffer. It is useful due its basic pH that allows migrations of the DNA through the gel toward the positive anode. TAE buffers are used for the analyses of DNA products resulting from PCR amplification, DNA purification, or DNA cloning experiments.

TAE has a low ionic strength and buffering ability, it used to separating DNA larger than 1,500 bp and easily recovers the DNA from gel.

3. Specifications

Chemicals: Analytical grade.**RNAse/DNAse activity:** non-detectable**Format:** Liquid**Composition (1X):** 40 mM Tris, 20 mM acetic acid, 1 mM EDTA**Direction of use (10X):** Dilute 10x solutions 10:1 to make a 1x working solution. (50x): Dilute 50x solutions 50:1 to make a 1x working solution.**Sterilization:** purified using a 0.22 µm filtration process [aseptically filled]

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

TAE buffers are 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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