3050 Spruce Street, St. Louis, MO 63103 USA Tel: (800) 521-8956 (314) 771-5765 Fax: (800) 325-5052 (314) 771-5757 email: techservice@sial.com sigma-aldrich.com

Product Information

Tris Acetate-EDTA Buffer, 50× Concentrate

Reagents designed and manufactured under cGMP controls suitable for use in an IVD application.

Catalog Number **SRE0033**Store at Room Temperature

Synonym: TAE Buffer

Product Description

Tris Acetate-EDTA (TAE) buffer is commonly used in the electrophoresis of nucleic acids in agarose and polyacrylamide gels. TAE buffer is recommended for resolution of RNA and DNA fragments larger than 1500 bp, for genomic DNA, and for large supercoiled DNA

This $50\times$ TAE buffer stock solution contains 2 M Trizma[®] with 0.05M EDTA adjusted to pH 8.3 with acetic acid.

Precautions and Disclaimer

For manufacturing, processing, or repacking. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

Preparation of 1× TAE working buffer: Dilute the 50× concentrated buffer 50-fold with ultrapure water (\geq 18 M Ω ×cm resistivity at 25 °C). Notes: If precipitation is present in the 50× buffer, warm the bottle to 37 °C and mix until completely dissolved prior to dilution.

It is recommended $1\times$ working solutions be filtered through a 0.2 μ m filter before use.

1× working solutions can be used until the expiration date on packaging with storage at room temperature. If buffer becomes cloudy or discolored, discontinue use and discard.

Storage/Stability

Stable for two years from the date of manufacture when stored at room temperature. Do not use past expiration date printed on product label.

References

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- Loening, U.E., The fractionation of high molecularweight ribonucleic acid by polyacrylamide-gel electrophoresis. Biochem. J., 102, 251-257 (1967).
- 4. Masters, D.B. et al., High sensitivity quantification of RNA from gels and autoradiograms with affordable optical scanning. Biotechniques, **12(6)**, 902-906, 908-911 (1992).
- Stellwagen, E., and Stellwagen, N.C., The free solution mobility of DNA in Tris-acetate-EDTA buffers of different concentrations, with and without added NaCl. Electrophoresis, 23(12), 1935-1941 (2002).
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