

**Tris-Acetate-EDTA Buffer (TAE-10X) (Catalog# TBS5006)****DESCRIPTION**

10X TAE Buffer is a sterile-filtered solution of 0.4 M Tris, 0.2 M Acetate Acid, and 0.01 M EDTA used to prepare 1X buffer for DNA agarose gel electrophoresis, both in the agarose gel itself and the running buffer. Linear, double-stranded DNA separates faster in a TAE buffer-based system compared to Tris-Borate-EDTA (TBE) buffer, but the latter has a higher buffering capacity and is thus more resistant to changes in pH. Use of TAE vs. TBE buffer depends on downstream applications. TAE is recommended for preparative electrophoresis in which the nucleic acid bands being separated are to be used in cloning, and other work requiring enzymatic applications.

**Directions for Use:** Dilute 10X TAE to a 1X solution using ddH<sub>2</sub>O. This product supplies enough 10X material to make 10 liters of 1X solution.

**Storage:** Supplied as a 10X solution, 1000 mL. Store at room temperature.

**This product is for *in vitro* research use only and is not intended for use in humans or animals.**

**This product is not intended for use as a therapeutic or in diagnostic procedures.**

**Please visit [www.tribioscience.com](http://www.tribioscience.com) for a complete listing of recommended companion products.**

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**CERTIFICATE OF NON-HAZARDOUS MATERIAL****Identification:**

**Product name:** 10X Tris-Acetate-EDTA Buffer

**Product Catalog:** TBS5006

**Manufacturer Supplier:**

4062 Fabian Way, Suite 1, Palo Alto,  
CA 94303 USA

1-650-917-9269 TEL

1-650-618-5498 FAX

**Composition/Information on Ingredients:**

**Buffer Name:** Tris-Acetate-EDTA Buffer, pH 8.3.

Ingredient Name	CAS#	Percent
Tris base	77-86-1	<5%
Acetate Acid	64-19-7	<1%
EDTA <sub>2</sub> Na	6381-92-6	<1%

**Hazard Identification:**

**Materials listed above are not considered hazardous, or are not present above 1%, or are not carcinogens above 0.1% as defined in 29 CFR 1910.1200, the OSHA Hazard Communication Standard. Therefore, Material Safety Data Sheets are not required. We recommend treating all chemicals with caution.**

**Other Information:**

This compound is sold only for research use by personnel familiar with chemicals and who are well trained in good laboratory habits, such as avoiding spills, keeping hands clean at all times and not rubbing eyes with hands while working in the laboratory. No other use is intended. The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide for experienced personnel, Tribioscience Inc. shall not be held liable for any damage resulting from the handling of or from contact with the above product. The burden of safe use of this material rests entirely with the user.

**RELATED PRODUCTS:**

TBE-10x (catalog# TBS5007)

PBS-10x (catalog# TBS5004)

DNA Loading Buffer (catalog# TBS5018)

TE Buffer (catalog# TBS5009)