

50X TAE

<u>Product Name</u>	<u>Product Code</u>	<u>Kit Packing</u>
50X TAE	ML016-100ML	100 ml
	ML016-500 ML	500 ml
	ML016-2X500 ML	2X500 ml

Introduction: Tris-Acetate-EDTA (TAE) buffer is commonly used in DNA agarose gel electrophoresis. It is used both in the agarose gel itself and in the running buffer. In TAE buffer linear and double-stranded DNA separates faster compared to Tris-Borate-EDTA (TBE) buffer. TAE is recommended over TBE for preparative gel electrophoresis in which the electrophoresed DNA fragments being separated are to be used in cloning, and other work requiring enzymatic applications.

Description: 50X TAE buffer is used for electrophoresis of nucleic acids after diluting it to 1X. It has a lower buffer capacity than TBE; however, linear dsDNA tends to run faster in TAE than in TBE buffer. TAE Buffer is commonly used in low voltage DNA electrophoresis applications. It's relatively low buffering capacity will become exhausted in extended or high current runs, making buffer recirculation necessary in such runs.

Application: TAE (Tris-Acetate-EDTA) buffer is widely used in all DNA electrophoresis applications. TAE buffer provides better resolution of fragments greater than 4 kb. Potential advantages of TAE over TBE buffers include superior resolution of supercoiled DNA and slightly faster migration of ds linear DNA fragments.

Composition: 50X TAE is made from highly pure molecular biology grade Tris base, EDTA and acetic acid and conveniently premixed to save time.

Properties:

Appearance	: Colorless solution
Clarity	: Clear and free of particles
DNase & RNase	: None detected
Bioburden	: None detected
Agarose gel electrophoresis	: As per specific standards
Suitability test	: This solution has been tested and is suitable for use

Storage conditions: 50X TAE solution has to be stored at room temperature (15 - 25 °C).

Technical Assistance

At HiMedia we pride ourselves on the quality and availability of our technical support. For any kind of technical assistance, mail at mb@himedialabs.com.

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ML016-01

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