

50X TE Buffer

<u>Product Name</u>	<u>Product Code</u>	<u>Kit Packing</u>
50X TE Buffer	ML125-100ML	100 ml
	ML125-500ML	500 ml

Introduction:

The TE Buffer is an extensively used buffer in Molecular Biology. Its principal application includes protection of DNA and RNA from degradation. The 50X buffer should be diluted to 1X before use.

Description:

TE buffer, also called "T10E1" Buffer or "T ten E one buffer", is composed of Tris, a buffering agent and EDTA, a chelating agent. EDTA prevents the degradation of DNA and RNA by chelating divalent metal ions which are required for nuclease activity. The Tris buffering agent and EDTA metal chelating properties help to protect DNA and RNA. Based on nuclease studies the pH should be adjusted to 7.5 for RNA and 8.0 for DNA as the respective DNA and RNA nucleases are supposed to be less active at these pH values, but pH 8.0 can be used for storage of both DNA and RNA.

Application:

TE buffer is mainly used in storing DNA. Genomic and plasmid DNA can be stored in TE Buffer at 4oC for short-term use, or -20oC to -80oC for long-term storage. Repeated freeze-thaw cycles should be avoided. Moreover, Tris-EDTA buffer disrupts protein cross-links and therefore is useful in unmasking antigens and epitopes in formalin-fixed and paraffin-embedded tissue sections. This buffer is also used in immunohistochemical detection of some proteins as it enhances the staining intensity of antibodies.

Composition:

50X TE Buffer consists of 500 mM Tris and 50 mM EDTA adjusted to pH 8.0. This buffer is supplied as 50X stock and should be diluted to 1X before use.

Properties:

Appearance	: Colorless solution
Clarity	: Clear and free of particles
pH	: 7.98 – 8.02
DNase & RNase	: None detected
Sterility	: No Bacterial or Fungal growth observed after 14 days of incubation as per USP Specifications
Suitability test	: This solution has been tested and is suitable for use in various Molecular Biology applications.

Please refer disclaimer Overleaf.

Storage conditions:

50X TE Buffer has to be stored at room temperature (15-25°C). Under recommended condition, the reagent is stable for 48 months.

Warning and Precautions

Not for Medicinal Use. Read the SDS carefully before beginning the protocol. Wear protective gloves/protective clothing/eye protection/face protection. Follow good clinical laboratory practices while handling clinical samples. Standard precautions should be followed as per established guidelines. Safety guidelines may be referred in safety data sheets of the product.

Performance and Evaluation

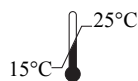
Performance of the solution is expected when the solution is stored at recommended temperature and within the expiry period.

Safety Information

The 50X TE Buffer is for laboratory use only, not for drug, household or other uses. Take appropriate laboratory safety measures and wear gloves and safety goggles when handling. Not compatible with disinfecting agents containing bleach. Please refer the Safety Data Sheet (SDS) for information regarding hazards and safe handling practices.

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.



Storage temperature



Do not use if package is damaged



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