

1X TE buffer, pH 8.0

<u>Product Name</u>	<u>Product Code</u>	<u>Kit Packing</u>
1X TE buffer pH 8.0	ML060-100ML	100 ml
	ML060-500 ML	500 ml

Introduction:

1X TE Buffer, pH 8.0 is an extensively used buffer in Molecular Biology. Its principal application includes protection of DNA and RNA from degradation.

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 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 4°C for short-term use, or -20°C to -80°C 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 immuno-histochemical detection of some proteins as it enhances the staining intensity of antibodies.

Composition:

1X TE buffer, pH 8.0 consists of 10 mM Tris and 1 mM EDTA adjusted to pH 8.0. This buffer is supplied as a ready to use solution.

Properties:

Appearance	: Colorless solution
Clarity	: Clear and free of particles
pH	: 7.9 – 8.1
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:

1X TE buffer, pH 8.0 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. Tris buffer may causes irritation to eyes and skin. 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

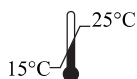
Performance of the solution is expected when the solution is stored at recommended temperature and within the expiry period.

Safety Information

The 1X TE buffer, pH 8.0 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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