# 0.5M EDTA, pH 8.0

| Product Name | Product Code | Kit Packing |
|---|---|---|
| 0.5M EDTA pH 8.0 | ML014-100ML | 100 ml |
| | ML014-500 ML | 500 ml |
| | ML014-2X500ML | 2X500 ml |

## Introduction

0.5M EDTA pH 8.0 is an aqueous solution prepared by dissolving EDTA disodium salt dihydrate in distilled water and adjusting the pH to 8.0 with Sodium hydroxide. This buffer is suitable for biochemistry or molecular biology applications as a chelator of divalent metal ions.

## Description

0.5M EDTA buffer is mainly used as a chelating agent during metal dependent enzymatic reactions as it has the ability to "sequester" metal ions such as $Ca^{2+}$ and $Fe^{3+}$. After being bound by EDTA, metal ions remain in solution but exhibit diminished reactivity. Nucleic acids are normally stored in TE buffer that contains 1 mM EDTA, which prevents degradation of nucleic acids by metal dependent nucleases. 0.5M EDTA buffer is also used as a chelating agent in tissue culture as it binds to calcium and prevents the joining of cadherins ($Ca^{2+}$ dependent cell-cell adhesion) between cells and as a result clumping of cells is prevented.

## Composition

0.5M EDTA, pH 8.0 buffer consists of 0.5M EDTA adjusted to pH 8.0 with HCl. These solutions are ready for use and require no extra preparation.

## Properties

| | | |
|---|---|---|
| Appearance/ Color/ Clarity | : | Colorless clear solution 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 Molecular Biology Applications |

## Storage conditions

0.5M EDTA pH 8.0 solution has to be stored at (15-25°C). Under recommended condition, the reagent is stable for 48 months.



ISO 9001-2015 CERTIFIED WHO GMP CERTIFIED ISO 13485-2016 CERTIFIED

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**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 0.5M EDTA 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.

**Symbol**

| | | | |
|---|---|---|---|
|  | Manufacturer |  | Do not use if package is damaged |
|  | Batch code |  | Temperature limit |
|  | Date of manufacture (YYYY-MM) |  | Consult instructions for use |
|  | Use-by date (YYYY-MM) |  | Catalogue number |

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