

Technical Information

0.5M EDTA pH 8.0

Product Code:TCL1189

Introduction: 0.5M EDTA pH 8.0 is an aqueous solution prepared by dissolving EDTA, disodium salt, dihydrate in distilled, deionized 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.

Quality control

Appearance

Colorless, solution.

Clarity

Clear and free of particle

pH

7.9 -8.1

Dnase

None detected

Sterility

No bacterial or fungal growth observed after 14 days of incubation, as per USP specification.

Suitability test

This solution has been tested and is suitable for use in molecular biology Applications.

Storage and Shelf Life

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.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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