

Data sheet

0.5M EDTA Buffer, pH 8.0

Cat. No: BR060

One Pouch/500 ml

Bulk quantities available! Contact us.

Introduction

The EDTA or ethylene-diamine-tetraacetic acid, acts like chelating agent that sequesters a variety of polyvalent cations such as Ca^{2+} and Mg^{2+} . EDTA is usually used like inactivator of metal-dependent enzymes, preventing damage to DNA and RNA. In cell cultures is used to avoid clumping of cells in liquid suspensions, as EDTA binds to calcium and prevents joining of cadherins between cells.

Applications

- Anticoagulant for blood samples and its storage.
- Abduct the metal required to metal-dependent enzyme, inactivating the reactions.
- Avoid junctions between cells by cadherins, usually used to cell culture procedures.
- Used in TAE and TBE buffers because it inhibits metal-dependent nucleases by chelating the divalent cations (Ca^{2+} Mg^{2+}), protecting the DNA from nucleases during the run.
- Added to TE buffer, used to solubilize DNA and RNA, inactivating nucleases by binding to metals cations required by these enzymes.

Specifications

Chemicals: Analytical grade.

Format: Exactly pre-weighed tablets.

Concentration: 0.5 M EDTA

Volume: 500 ml

pH: 8 ± 0.05 at 25 °C

Shelf life: Three years after production date

Shipping and storage

EDTA buffer is shipped at room temperature. Store the product in a dry place at room temperature.

Directions for use

Empty one pouch of the EDTA buffer in a flask or beaker and add 500 ml of water.

Canvax Biotech, S.L. C/Astrónoma Cecilia Payne. Edif. Canvax. 14014 Córdoba, Spain.

☎ : +34 957 348 066

☎ : +34 957 346 217

✉ : info@canvaxbiotech.com



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