

DATA SHEET

Version: 2

Revision date: 17/02/23

1. Identification

Product name	0.5M EDTA Buffer, pH 8.0
	100mL
Cat. No	BR0061

2. Description

The EDTA or ethylene-diamine-tetraacetic acid, acts like chelating agent that sequesters a variety of polyvalent cations such as Ca²⁺ and Mg²⁺. 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.

3. Specifications

Chemicals: Analytical grade.
Format: Exactly pre-weighed powder.
Volume: 100 mL.
Concentration: 0.5 M EDTA
pH: 8 ± 0.05 at 25°C
Shelf life: Three years after production date

4. Shipping and Storage specifications

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

5. 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 (Ca²⁺ Mg²⁺), 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.

6. Directions for use

Ready to use solution

7. Further information

Product Use Limitation This product is developed, designed and sold exclusively only for research purposes use. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

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