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DATA SHEET

Version: 3
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1. Identification

Product name **0.5M EDTA Buffer (pH 8.0)**

Cat. No

BR0061	100mL (Sterile)
BR0060	1 pouch (500 mL)

2. Description

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

3. Specifications of Ready-to-use solution

Chemicals: Analytical grade.
Format: Liquid.
Sterilization: purified using a 0.22 µm filtration process [aseptically filled]
Concentration: 0.5 M EDTA
pH: 8 ± 0.2 at 25˚C
Direction of use: Ready-to-use solution

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.
- Chelates metals required by metal-dependent enzyme, inactivating the reactions.
- Avoid junctions between cells by cadherins, usually used in 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. Quality

Manufactured in an **ISO 13485:2016 and GMP-certified facility**, located in Boecillo, Valladolid (Spain), under ISO9001:2016 procedures to ensure the highest quality standards.

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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