



## EDTA 0.02N Solution

R093

### Intended use

EDTA 0.02N is standard solution used for volumetric titration in analytical chemistry

### Composition\*\*

#### Ingredients

EDTA	3.7225 gm
Distilled water	1,000.0 ml

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

1. The reagent of 0.02N concentration, that is dispensed from a burette to a sample, until a reaction between the two liquids is judged to be complete.

### Principle And Interpretation

EDTA is used as analytical volumetric titrant solution. The hardness of water can be determined by using EDTA (Ethylene diamine tetra acetic acid) method. EDTA is dissolves in water with great difficulty, but its disodium salt dissolve in water quickly & completely, It is hexa dentate ligend. It binds the metal ions in water to give stable chelate complex. Hence it is called as complexometric titration method. This method is definitely preferable to the other method because of the greater accuracy, convenience & more rapid.

### Type of specimen

Biological sample

### Specimen Collection and Handling

Follow appropriate techniques for handling specimens as per established guidelines.

### Warning and Precautions

In Vitro diagnostic Use only. Read the label before opening the container. Wear protective gloves/protective clothing/ eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets.

### Limitations

1. It is a destructive method as it uses relatively large quantities of the substance being analyzed.
2. There is a chance of human error by this method.

### Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature

## Quality Control

- **Appearance** : Colourless solution.
- **Clarity** : Clear with no insoluble particles.
- **Normality** : 0.018 - 0.022N

**Results:** By titration method end points was detected.

## Storage and Shelf Life

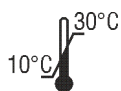
Store between 10-30°C in tightly closed container and away from bright light. Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use.

## Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques.

## Reference

1. Hart, J. Roger (2005) "Ethylenediaminetetraacetic Acid and Related Chelating Agents" in Ullmann's Encyclopedia of Industrial Chemistry, Wiley-VCH, Weinheim.
2. Lapage S., Shelton J. and Mitchell T., 1970, Methods in Microbiology', Norris J. and Ribbons D., (Eds.), Vol. 3A, Academic Press, London.
3. MacFaddin J. F., 2000, Biochemical Tests for Identification of Medical Bacteria, 3rd Ed., Lippincott, Williams and Wilkins, Baltimore



Storage temperature



Do not use if package is damaged



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