



# SMARTBUFFERS

## Tris-EDTA Buffer (TE) pH 7.4



### Features

- pH adjusted for DNA/RNA work
- Sterilize by autoclaving or filtration
- Contains chelating agent
- 10x pre-weighed powder mix in pouches
- Dissolve and go for greater convenience

### Product description

TE buffer is composed by Tris, a buffering agent and EDTA, a chelating agent. EDTA has the ability to prevent degradation of DNA and RNA by chelating magnesium- or other divalent metal ions. Tris-EDTA-based solutions break protein cross-links and can therefore unmask antigens and epitopes in formalin-fixed and paraffin-embedded tissue sections. Treatment with TE buffer enhances the staining intensity of antibodies in the immuno-histochemical detection of certain proteins.

Medicago's TE buffer is supplied as exactly pre-weighed powder in pouches, giving 1000 ml of 0.1 M Tris-HCl, 0.010 M Tris-EDTA buffer with pH 7.4 at 25°C when dissolved in nuclease free water or deionized water.

### Applications

- Storing and diluting DNA and RNA
- Breaking protein-links in immuno-histochemistry procedures

### Directions for use

Empty one pouch of the TE buffer in a laboratory flask or beaker placed on a magnetic stirrer. Add 300 ml of deionized water and stir for a couple of minutes. Adjust the volume up to 1000 ml, stir until full dissolution and the buffer is ready to use.

### Shipping and storage

TE buffer is shipped at room temperature. Store the pouches in a dry place at room temperature. Shelf life is three years.

### Specifications

Chemicals	Analytical grade
Format	Exactly pre-weighed powder mix
Concentration	0.1 M Tris-HCl, 0.010 M EDTA
Volume	1000 ml
pH	7.4 ± 0.05 at 25°C
Shelf life	Three years after production date

### Tips and hints

Nuclease free water is recommended when using the TE buffer for RNA and DNA work. Deionized water, should only be used for less sensitive applications.

If the contents of the pouch is not properly dissolved, make sure:

- the water temperature is 25°C (do not exceed this temperature)
- the buffer solution is properly stirred.

Sterilization can be performed by filtration or autoclaving. Filter the buffer solution into a sterile flask through a 0.22 µm filter and keep at +4°C.

### Certifications

Medicago's laboratories and manufacturing site in Uppsala is ISO 9001:2015 certified. Each stage of the manufacturing process is controlled and monitored by stringent quality control procedures to guarantee the highest possible quality and lot-to-lot reproducibility.



### Ordering information

Article no.	Product name	Pack size	Solution vol.
12-9154-5	Tris-EDTA buffer 10x pH 7.4	10 pouches	1000 ml/pouch