

## Tris Buffer (Tris-HCl), pH 7.4, pH 8.0 and pH 8.3



### Features

- Formulated from analytical grade reagents
- Choice of three different pre-set pH
- Wide buffering capacity range: pH 7.0 to 9.2
- Dissolve and go for greater convenience
- Consistency from lot to lot

### Product description

Tris buffer is used in many applications within biochemistry and molecular biology laboratories and is a component in TAE and TBE (electrophoresis running buffer). Tris has a slightly alkaline buffering capacity between pH 7.0 and 9.2, which coincides with the typical physiological pH of most living organisms. Tris buffer is a good option for washing procedures in cell cultures (1) and is suitable as suspension buffer for biological samples.

Medicago's Tris buffer is supplied as exactly pre-weighed powder in pouches at three different pH, 7.4, 8.0, and 8.3, one pouch giving 1000 ml of 1 M Tris-HCl buffer at 25°C.

### Applications

- Component in TAE and TBE buffers
- Cell and tissue culture procedures
- Biochemistry and molecular biology

### Directions for use

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

### Shipping and storage

Tris buffer is shipped at room temperature. Store the pouches in a dry place at room temperature. Shelf life is three years. Tris buffer solutions can be stored at room temperature or at +4°C for two weeks.

### Specifications

Chemicals	Analytical grade
Format	Exactly pre-weighed powder mix
Concentration	1 M Tris-HCl
Volume	1000 ml
pH	7.4, 8.0, and 8.3 ± 0.05 at 25°C
Shelf life	Three years after production date

### Tips and hints

- 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. Filtrate the buffer solution through a 0.22 µm filter into a sterile flask. Keep the buffer solution at +4°C. The pH value of a Tris buffer strongly depends on the temperature. The pKa of 8.06 changes approximately 0.03 units per degree Celsius.

### Certifications

Medicago's laboratories and manufacturing site in Uppsala are ISO 9001:2008 and ISO 13485:2003 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.
A12-9198-10	Tris buffer pH 7.4	10 pouches	1000 ml/pouch
A12-9199-10	Tris buffer pH 8.0	10 pouches	1000 ml/pouch
A12-9200-10	Tris buffer pH 8.3	10 pouches	1000 ml/pouch

### References

1. Separation of three microbial amino acid polymerization factors (1996). J Lucas-Lenard, F Lipmann - National Academy of Sciences