

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