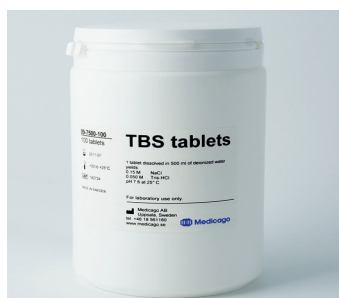


# SMARTBUFFERS

## Tris Buffered Saline (TBS), pH 7.6 and 8.0



### Features

- Formulated from analytical grade reagents
- Isotonic, non-toxic buffer
- Choice of 1x or 10x concentration
- Guaranteed reproducibility
- Ready to use in minutes

### Product description

TBS is isotonic and non-toxic to cells and is suitable for molecular biology. The buffer is commonly used as substance diluent or as wash buffer in immunoassays such as ELISA. It is used in immuno-histochemical staining when the background is high and for diluting alkaline phosphatase or peroxidase-conjugated antibodies in Western blotting.

Medicago's TBS buffer is supplied as pre-weighed tablets in bottles and in blister packs or as powder in sealed pouches. One tablet or the contents of one pouch gives 500 ml or 1000 ml of buffer solution in the compositions:

1. 1 x solution; 0.05 M Tris buffered saline, 0.138 M sodium chloride, 0.0027 M potassium chloride with pH 8.0 at 25°C.
2. 10 x solution; 0.5 M Tris buffered saline, 1.38 M sodium chloride, 0.027 M potassium chloride with pH 8.0 at 25°C.
3. 1 x solution; 0.05 M Tris-HCl buffer, 0.15 M sodium chloride with pH 7.6 at 25°C.

### Applications

- Wash buffer in immunoassays
- Antibody diluent in Western blotting
- Sample diluent in *in vitro* diagnostics
- Immuno-histochemical staining
- *In Situ* hybridization

### Directions for use

Empty one pouch or dispose one tablet in a laboratory flask or beaker placed on a magnetic stirrer. Add 200 ml of deionized water for the tablets and 500 ml for the pouches and stir the solution for a few minutes. Adjust the volume up to 500 ml or 1000 ml, stir until full dissolution and the buffer is ready to use.

### Shipping and storage

TBS buffer is shipped at room temperature. Store tablets and pouches in a dry place at room temperature. Shelf life is three years.

### Specifications

	1x pH 8.0	10x pH 8.0	1x pH 7.6
Chemicals	Analytical grade	Analytical grade	Analytical grade
Format	Exactly pre-weighed powder mix	Exactly pre-weighed powder mix	Exactly pre-weighed tablets
Composition	0.050 M TBS, 0.138 M NaCl, 0.0027 M KCl	0.50 M TBS, 1.38 M NaCl, 0.027 M KCl	0.050 M Tris-HCl, 0.15 M KCl
Volume	1000 ml	1000 ml	500 ml
pH	8.0 ± 0.05 at 25°C	8.0 ± 0.05 at 25°C	7.6 ± 0.05 at 25°C
Shelf life	Three years after production date	Three years after production date	Three years after production date



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## Tips and hints

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

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

Sterilization can be performed by filtration or autoclaving. Filtrate the buffer solution through a 0.22 µm filter into a sterile flask or autoclave for 15 to 20 min. Keep the buffer solution at +4°C.

## 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.



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## Ordering information

Article no.	Product name	Pack size	Solution vol.
12-9133-10	TBS 1x pH 8.0	10 pouches	1000 ml/pouch
12-9134-10	TBS 10x pH 8.0	10 pouches	1000 ml/pouch
09-7500-10	TBS 1x pH 7.6	10 tablets*	500 ml/tablet
09-7500-100	TBS 1x pH 7.6	100 tablets	500 ml/tablet

\*Blister pack