

SMARTBUFFERS

Tris Buffered Saline (TBS) pH 7.6 and 8.0



Features

- Isotonic, non-toxic buffer
- Choice of 1x or 10x concentration
- Guaranteed reproducibility
- Ready to use in minutes
- Save space in stock rooms

Product description

Tris Buffered Saline 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 exactly pre-weighed powder in sealed pouches. One tablet or the contents of one pouch yields 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 in a laboratory flask or beaker placed on a magnetic stirrer. Add deionized water and stir until full dissolution. Adjust the volume up to 1000 ml and the buffer is ready to use.

For tablets, dissolve one tablet in 500 ml of deionized water. Stir until full dissolution and the buffer is ready to use.

Shipping and storage

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

Specifications

	1x pH 8.0 (12-9133)	10x pH 8.0 (12-9134)	1x pH 7.6 (09-7500)
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 NaCl
Volume	1000 ml	1000 ml	500 ml
pH	8.0 ± 0.05 at 25°C	8.0 ± 0.05 at 25°C	7.6 ± 0.1 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 22-25°C
- the buffer is properly stirred
- high quality deionized water is used

Sterilization can be performed by filtration or autoclaving. Filter the buffer solution into a sterile flask through a 0.22 µm filter.

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.
12-9133-10	TBS 1x pH 8.0	10 pouches	1000 ml/pouch
12-9134-10	TBS 10x pH 8.0	10 pouches	1000 ml/pouch
09-7500-30	TBS 1x pH 7.6	30 tablets*	500 ml/tablet
09-7500-100	TBS 1x pH 7.6	100 tablets	500 ml/tablet

*Blister pack