

# Tris buffered saline (TBS)

## pH7.6 and pH8.0

fon:  
+49 (0)731 - 3608 123  
fax:  
+49 (0)731 - 3608 962  
eMail:  
[info@genaxxon.com](mailto:info@genaxxon.com)  
internet:  
[www.genaxxon.com](http://www.genaxxon.com)

Product	Cat#	Package size
Tris buffered saline (10X, pH8.0) (1000mL/pouch)	D2027.1010	10 bags
Tris buffered saline (1X, pH8.0) (1000mL/pouch)	D2028.1001	10 bags
Tris buffered saline (1X, pH7.6) (500mL/tablet)	D2037.0010	10 tablets *
Tris buffered saline (1X, pH7.6) (500mL/tablet)	D2037.0100	100 tablets
Tris buffered saline with Tween 20 (1X, pH7.6) (500mL/tablet)	D2038.0010	10 tablets *
Tris buffered saline with Tween 20 (1X, pH7.6) (500mL/tablet)	D2038.0100	100 tablets

\* Blister pack

### 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. Genaxxon'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 500mL or 1000mL of buffer solution in the compositions shown below.

TBS Tween™20 is one of the most commonly used biological buffers for plate based immunoassays and Western blotting. It is isotonic, non-toxic to cells and contains a non-ionic detergent. It is used preferably as an antibody diluent and wash reagent in ELISA and Western blotting using alkaline phosphatase or peroxidase-conjugated antibodies.

### Product Specifications

	1X TBS pH8.0	10X TBS pH8.0	1X TBS pH7.6
Chemicals	Analytical grade	Analytical grade	Analytical grade
Format	Pre-weighed tablets or powder	Pre-weighed tablets or powder	Pre-weighed tablets or powder
Composition	0.05M TBS 0.138M NaCl 0.0027M KCl	0.500M TBS 1.380M NaCl 0.027M KCl	1. 0.050M Tris/HCl, 0.15M KCl 2. 0.050M Tris/HCl, 0.15M KCl 0.05% Tween 20
Volume	1000mL	1000mL	500mL
pH (25°C)	8.0 ± 0.05	8.0 ± 0.05	7.4 ± 0.05
Shelf life	Three years after production date	Three years after production date	Three years after production date

### Applications

- Immunoassays
- Immuno-histochemical procedures
- Microbiological procedures
- Tissue and cell culture procedures
- Sample dilution
- Blocking buffer for plate based assays
- Wash buffer in immunoassays, for example ELISA and Western blotting

### Product Use

Empty one pouch or deposit one tablet in a laboratory flask or beaker placed on a magnetic stirrer. Add 350mL to 700mL of deionized water for pouches and tablets in the volume range 500mL to 1000mL and stir the solution for a few minutes. Adjust the water up to the given volume, stir until full dissolution and the buffer is ready to use.

### Stability

TBS buffer is shipped at room temperature. Store the tablets and pouches in a dry place at room temperature. Shelf life is three years after production date. Genaxxon's ready-to-use TBS solution in bottles is stable for one year at +4°C.

### 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 solution is properly stirred.

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

### Safety information

When working with chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles. For more information, please consult the appropriate material safety data sheets (MSDSs). These are available online as pdf-file or on request (info@genaxxon.com).

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**internet:**  
[www.genaxxon.com](http://www.genaxxon.com)