

ClearBand 20x Tris-Buffered Saline with Tween 20, pH 7.6 Troubleshooting Guide

500 ml, 1000 ml

Cat No: TBST2005, TBST2010

Use this guide for common preparation and wash-buffer problems with ClearBand 20x TBST, pH 7.6. The concentrate is intended especially for Western blotting and ELISA and should be diluted to 1x before use. The 1x TBST formulation contains 0.1% Tween 20.

Before You Start - Quick Checks

1. Store the concentrate at room temperature.
2. Dilute the 20x stock to 1x before use.
3. Use diluted 1x working solution within 1 week.
4. The 1x formulation contains 0.1% Tween 20.

Problem	Most likely cause	Recommended action
Wash buffer is too concentrated	The 20x stock may have been used without dilution.	Dilute the concentrate to 1x before use.
Wash buffer is too dilute	The stock-to-water ratio may be incorrect.	Recalculate the dilution to 1x and prepare a fresh working solution.
Western blot or ELISA wash behavior is inconsistent	The final buffer concentration may vary between preparations.	Standardize preparation of 1x working solution and use the same formulation throughout the experiment.
Diluted buffer has been stored too long	The 1x working solution may be older than the datasheet recommendation.	Prepare fresh 1x working solution and use it within 1 week.
Wrong wash formulation was selected	A detergent-free TBS may have been required instead of TBST.	Use TBS or TBST according to the downstream protocol; this product contains Tween 20 after dilution.
Prepared volume is incorrect	The concentrate volume may not have been included in the final-volume calculation.	Prepare to the intended final volume using the correct amount of concentrate plus diluent.
Results vary between batches of working buffer	Dilution ratio or age of the 1x solution may differ between batches.	Standardize the dilution and prepare working buffer on a consistent schedule.
pH-sensitive workflow behaves unexpectedly	A different buffer formulation or pH may have been used.	Confirm that the selected product is pH 7.6 and is the TBS/TBST formulation required by the assay.

Still having trouble? Confirm the 20x-to-1x dilution, pH 7.6 formulation, room-temperature stock storage, and use of diluted working solution within 1 week. Verify that 1x TBST should contain 0.1% Tween 20.