

## Certificate of Analysis

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Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System  
 Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	J77500	Quality Test / Release Date	03/24/2023
Lot Number	226125		
Description	TBW WITH TWEEN (TBST), 20X SOLUTION, MOLECULAR BIOLOGY GRADE, ULTRAPURE		
Country of Origin	United States	Suggested Retest Date	Mar/2028
Comment	Form: 20X TBS (Tris Buffered Saline) with Tween 20, solution consisting of 500 mM Tris, 60 mM KCl, 2.8 M NaCl and 1.0% Tween 20 in high purity DI H2O, 0.2 micron filtered.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, Colorless Solution
DNASE (ENDO)	PASS/FAIL	= PASS TEST	PASS TEST
DNASE (EXO)	PASS/FAIL	= PASS TEST	PASS TEST
PROTEASE	PASS/FAIL	= PASS TEST	PASS TEST
pH OF 20X SOLUTION		Inclusive Between 7.3 - 7.5	7.5



Harout Sahagian - Quality Control Supervisor - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.  
 If there are any questions with this certificate, please call at (800) 227-6701.

\*Based on suggested storage condition.