



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 – 0120632

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	J15397	Quality Test / Release Date	08/15/2019
Lot Number	196020		
Description	DITHIOTHREITOL (DTT), MOLECULAR BIOLOGY GRADE, ULTRAPURE		
Country of Origin	Canada	Suggested Retest Date	Aug/2024
Chemical Origin			
BSE/TSE Comment			
Chemical Comment			

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	White crystalline powder
ABSORBANCE 0.1M SOL AT 260NM	ABS. UNITS	<= 0.40	0.3
ABSORBANCE 0.1M SOL AT 280NM	ABS. UNITS	<= 0.08	<0.04
ASSAY (S-H)	%	>= 99.5	99.5
RNASE	PASS/FAIL	= NOT DETECTED	not detected
MELTING POINT	DEGREES CELSIUS	Inclusive Between 40 - 43	41
OXIDIZED DTT	%	<= 0.3	0.2
PROTEASE	PASS/FAIL	= NOT DETECTED	NOT DETECTED
DNASE	PASS/FAIL	= NOT DETECTED	not detected

Quality Assurance Specialist - Certificate of Analysis 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.