

CERTIFICATE OF ANALYSIS

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

Catalogue Number 32719
 Lot Number B0158401A
 Description DL 1, 4-DITHIOTHREITOL (DTT), DNASE, RNASE, PROTEASE FREE
 CAS Number 3483-12-3
 Quality Test/Release Date 23/Mar/2026
 Suggested retest date 30/Jun/2029
 Country of Origin Canada
 Declaration of Origin Organic - non animal
 No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.
 BSE/TSE

Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	White to off white solid
ABSORBANCE AT 260 NM	ABS. UNITS	<= 0.5	0.299
ABSORBANCE AT 280NM	ABS. UNITS	<= 0.1	0.03
ASSAY	%	Inclusive Between 99.0 - 101.0	100.1
DNASE	detected- n/detected	= NOT DETECTED	NOT DETECTED
HEAVY METALS (as Pb)	ppm	<= 5	<5
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
OXIDIZED DTT (BY UV)	%	<= 0.5	0.16
PROTEASE	detected- n/detected	= NOT DETECTED	NOT DETECTED
RNASE	detected- n/detected	= NOT DETECTED	NOT DETECTED



Harout Sahagian
QC Manager

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research use or further manufacturing. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of the catalogue number listed above.