

## 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	BP310
Lot Number	255085
Description	HEPES, Molecular Biology Grade
CAS Number	7365-45-9
Quality Test/Release Date	24/Feb/2026
Suggested retest date	12/Oct/2028
Country of Origin	Taiwan
Declaration of Origin	Organic - non animal
BSE/TSE	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.

Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	White crystalline powder or crystals
ABSORBANCE 0.1M SOL @ 280NM	ABSORBANCE UNITS	$\leq 0.01$	$<0.01$
APHA ASSAY	A.P.H.A. %	$\leq 10$ $\geq 99$	1 101.8
DNASE	DETECTED/ NOT DETECT.	IN NOT DETECTED	NOT DETECTED
IDENTIFICATION PKA AT 25 DEGREES C	PASS/FAIL	IN PASS TEST Inclusive Between 7.3 - 7.7	PASS TEST 7.6
PROTEASE	DETECTED/ NOT DETECT.	IN NOT DETECTED	NOT DETECTED
RNASE	DETECTED/ NOT DETECT.	IN NOT DETECTED	NOT DETECTED
SOLUBILITY	CLEAR AND COLORLESS	IN CLEAR AND COLORLESS	CLEAR AND COLORLESS
THIN LAYER CHROMOTOGRAPHY		IN SINGLE SPOT	SINGLE SPOT

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.

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