

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	A113
Lot Number	257744
Description	ACETIC ACID (AA), OPTIMA LC/MS GRADE
CAS Number	64-19-7
Quality Test/Release Date	29/Apr/2026
Suggested retest date	31/Mar/2029
Country of Origin	United States

Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid
ASSAY	%	>= 99.7	99.8
CHLORIDE	ppm	<= 0.4	<0.4
COLOR	APHA	<= 10	<5
EVAPORATION RESIDUE	ppm	<= 5	<5
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IONIC IMPURITY - ALUMINUM (Al)	ppb	<= 20	<1
IONIC IMPURITY - CALCIUM (Ca)	ppb	<= 50	<1
IONIC IMPURITY - COPPER (Cu)	ppb	<= 10	<1
IONIC IMPURITY - IRON (Fe)	ppb	<= 10	<1
IONIC IMPURITY - LEAD (Pb)	ppb	<= 10	<1
IONIC IMPURITY - MAGNESIUM (Mg)	ppb	<= 10	<1
IONIC IMPURITY - MANGANESE (Mn)	ppb	<= 10	<1
IONIC IMPURITY - NICKEL (Ni)	ppb	<= 10	<1
IONIC IMPURITY - POTASSIUM (K)	ppb	<= 20	2
IONIC IMPURITY - SILVER (Ag)	ppb	<= 10	1
IONIC IMPURITY - SODIUM (Na)	ppb	<= 50	8
IONIC IMPURITY - ZINC (Zn)	ppb	<= 20	3
LC-MS GRADIENT SUITABILITY	PASS/FAIL	= PASS TEST	PASS TEST
LC-UV GRADIENT SUITABILITY	PASS/FAIL	= PASS TEST	PASS TEST
LCMS SUI IN POS MODE (AS PROPAZINE)	ppb	<= 100	<100
LCMS SUITABILITY-NEG.MODE (AS CHLORAMPHENICOL)	ppb	<= 50	<50
OPTICAL ABS AT 255 NM	ABS. UNITS	<= 1	<1
OPTICAL ABS AT 280 NM	ABS. UNITS	<= 0.05	0.01
OPTICAL ABS AT 350 NM	ABS. UNITS	<= 0.02	<0.01
PROTEASE	PASS/FAIL	= NOT DETECTED	NOT DETECTED
SULFATE (SO4)	ppm	<= 0.4	<0.4
WATER (H2O)	%	<= 0.1	<0.1

Additional Information Metals tested as 0.1 % (wt/wt) solution in 2 % Nitric acid; LC-UV Gradient Suitability and LC-MS is tested at a 0.1 % aqueous solution; Protease is tested as a 0.1 % solution in water.

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.



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.