

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	253846
Description	ACETIC ACID (AA), OPTIMA LC/MS GRADE
CAS Number	64-19-7
Quality Test/Release Date	28/Aug/2025
Suggested retest date	27/Aug/2028
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	<10
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	<1
IONIC IMPURITY - SILVER (Ag)	ppb	<= 10	<1
IONIC IMPURITY - SODIUM (Na)	ppb	<= 50	<1
IONIC IMPURITY - ZINC (Zn)	ppb	<= 20	<1
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	0.03
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

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