

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	A955
Lot Number	253549
Description	ACETONITRILE, OPTIMA-LCMS GRADE
CAS Number	75-05-8
Quality Test/Release Date	12/Aug/2025
Suggested retest date	11/Aug/2030
Country of Origin	United States
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	Clear, colorless liquid
ASSAY	%	>= 99.9	>99.9
COLOR	APHA	<= 10	<5
EVAPORATION RESIDUE	ppm	<= 0.8	0.2
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IONIC IMPURITY - ALUMINUM (Al)	ppb	<= 25	<1
IONIC IMPURITY - BARIUM (Ba)	ppb	<= 5	<1
IONIC IMPURITY - CADMIUM (Cd)	ppb	<= 5	<1
IONIC IMPURITY - CALCIUM (Ca)	ppb	<= 25	<1
IONIC IMPURITY - CHROMIUM (Cr)	ppb	<= 5	<1
IONIC IMPURITY - COBALT (Co)	ppb	<= 5	<1
IONIC IMPURITY - COPPER (Cu)	ppb	<= 5	<1
IONIC IMPURITY - IRON (Fe)	ppb	<= 5	<1
IONIC IMPURITY - LEAD (Pb)	ppb	<= 5	<1
IONIC IMPURITY - MAGNESIUM (Mg)	ppb	<= 10	<1
IONIC IMPURITY - MANGANESE (Mn)	ppb	<= 5	<1
IONIC IMPURITY - NICKEL (Ni)	ppb	<= 5	<1
IONIC IMPURITY - POTASSIUM (K)	ppb	<= 10	1
IONIC IMPURITY - SILVER (Ag)	ppb	<= 5	<1
IONIC IMPURITY - SODIUM (Na)	ppb	<= 50	3
IONIC IMPURITY - TIN (Sn)	ppb	<= 5	<1
IONIC IMPURITY - ZINC (Zn)	ppb	<= 10	1
LC GRADIENT TEST WITH PDA (200-400 NM)	mAU	<= 2	<2
LCMS SUITABILITY - POS. MODE (AS PROPAZINE)	ppb	<= 50	<50
LCMS SUITABILITY-NEG.MODE (AS CHLORAMPHENICOL)	ppb	<= 50	<50
OPTICAL ABS AT 190 NM	ABS. UNITS	<= 1.00	0.69
OPTICAL ABS AT 195 NM	ABS. UNITS	<= 0.15	0.07
OPTICAL ABS AT 200 NM	ABS. UNITS	<= 0.05	0.02
OPTICAL ABS AT 205 NM	ABS. UNITS	<= 0.04	0.02
OPTICAL ABS AT 210 NM	ABS. UNITS	<= 0.03	0.01
OPTICAL ABS AT 215 NM	ABS. UNITS	<= 0.025	0.011
OPTICAL ABS AT 220 NM	ABS. UNITS	<= 0.015	0.007
OPTICAL ABS AT 225 NM	ABS. UNITS	<= 0.015	0.008
OPTICAL ABS AT 230 NM	ABS. UNITS	<= 0.01	<0.01
OPTICAL ABS AT 254 NM	ABS. UNITS	<= 0.005	0.001

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.

OPTICAL ABS AT 280 NM	ABS. UNITS	<= 0.005	0.001
TITRATABLE ACID	MEQ/G	<= 0.008	0.001
TITRATABLE BASE	MEQ/G	<= 0.0006	<0.0001
WATER (H ₂ O)	%	<= 0.01	<0.01

Additional Information HPLC/UHPLC-UV Gradient Suitability: Peak Height with PDA (200-400 nm) <= 2 mAU



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.

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