

## CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number. QMS42099

Catalogue Number	A955
Lot Number	2524624
Description	Acetonitrile, Optima LC-MS Grade LC-MS
CAS Number	75-05-8
Quality Test/Release Date	31/Jan/2025
Expiry Phrase	Use within 3 years of opening
Country of Origin	China

Result Name	Units	Specifications	Test Value
APPEARANCE		Must be 'CLEAR, COLORLESS LIQUID'	CLEAR, COLORLESS LIQUID
ASSAY	%	>= 99.9	100.00
COLOR	APHA	<= 10	<5
Chemical form		LIQUID	LIQUID
EVAPORATION RESIDUE	ppm	<= 0.8	0.77
IONIC IMPURITY - ALUMINUM (Al)	ppb	<= 25	<5
IONIC IMPURITY - BARIUM (Ba)	ppb	<= 5	<2
IONIC IMPURITY - CADMIUM (Cd)	ppb	<= 5	<2
IONIC IMPURITY - CALCIUM (Ca)	ppb	<= 25	<10
IONIC IMPURITY - CHROMIUM (Cr)	ppb	<= 5	<2
IONIC IMPURITY - COBALT (Co)	ppb	<= 5	<2
IONIC IMPURITY - COPPER (Cu)	ppb	<= 5	<5
IONIC IMPURITY - IRON (Fe)	ppb	<= 5	<5
IONIC IMPURITY - LEAD (Pb)	ppb	<= 5	<5
IONIC IMPURITY - MAGNESIUM (Mg)	ppb	<= 10	<5
IONIC IMPURITY - MANGANESE (Mn)	ppb	<= 5	<2
IONIC IMPURITY - NICKEL (Ni)	ppb	<= 5	<2
IONIC IMPURITY - POTASSIUM (K)	ppb	<= 10	<10
IONIC IMPURITY - SILVER (Ag)	ppb	<= 5	<2
IONIC IMPURITY - SODIUM (Na)	ppb	<= 50	<10
IONIC IMPURITY - TIN (Sn)	ppb	<= 5	<5
IONIC IMPURITY - ZINC (Zn)	ppb	<= 10	<5
LC GRADIENT TEST WITH PDA (200-400 NM)	mAU	<= 2	None Detected
LCMS SUITABILITY - NEG. MODE (AS CHLORAMPHENICOL)	ppb	<= 50	<50
LCMS SUITABILITY - POS. MODE (AS PROPAZINE)	ppb	<= 50	<50
OPTICAL ABS AT 190 NM	ABS. UNITS	<= 1	0.72
OPTICAL ABS AT 195 NM	ABS. UNITS	<= 0.15	0.104
OPTICAL ABS AT 200 NM	ABS. UNITS	<= 0.05	0.034
OPTICAL ABS AT 205 NM	ABS. UNITS	<= 0.04	0.022
OPTICAL ABS AT 210 NM	ABS. UNITS	<= 0.03	0.015
OPTICAL ABS AT 215 NM	ABS. UNITS	<= 0.025	0.01
OPTICAL ABS AT 220 NM	ABS. UNITS	<= 0.015	0.007
OPTICAL ABS AT 225 NM	ABS. UNITS	<= 0.015	0.003
OPTICAL ABS AT 230 NM	ABS. UNITS	<= 0.01	0.003
OPTICAL ABS AT 254 NM	ABS. UNITS	<= 0.005	0
OPTICAL ABS AT 280 NM	ABS. UNITS	<= 0.005	0
TITRATABLE ACID	mEq/g	<= 0.0003	0.0003
TITRATABLE BASE	mEq/g	<= 0.0002	6.0E-6

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.

Visual colour		CLEAR, COLORLESS	CLEAR, COLORLESS
WATER (H2O)	%	<= 0.01	0.006

**Additional Information** Filtered to 0.1 micron

*A. Ganatra*

Ashok Ganatra  
Supervisor, QC

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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