



## **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

A955 Catalogue Number Lot Number 2526533

Description Acetonitrile, Optima LC-MS Grade LC-MS

CAS Number 75-05-8 Quality Test/Release Date 11/Feb/2025

Expiry Phrase Use within 3 years of opening

Country of Origin China Declaration of Origin Synthetic

Not directly derived from or manufactured with any animal byproducts in any way BSE/TSE

(Including but not limited to fermentation or nutrient broth, catalysts, enzymes).

APPEARANCE  ASSAY  ASSAY  APHA   COLOR  APHA   CHICUID  LIQUID  LIQUID  LIQUID  EVAPORATION RESIDUE  EVAPORATION RESIDUE  EVAPORATION RESIDUE  EVAPORATION (AI)  DINC IMPURITY - BARIUM (Ba)  IONIC IMPURITY - CADMIUM (AI)  DINC IMPURITY - CADMIUM (Ca)  DINC IMPURITY - COBALT (Ca)  DINC IMPURITY - MANGANESE (Mn)  DINC IMPURITY - MANGANESE (Mn)  DINC IMPURITY - MANGANESE (Mn)  DINC IMPURITY - POTASSIUM (K)  DINC IMPURITY - POTASSIUM (K)  DINC IMPURITY - SILVER (Ag)  DINC IMPURITY - SILVER (Ag)	Result Name	Units	Specifications	Test Value
COLOR         APHA         <= 10         <5           Chemical form         LIQUID         LIQUID           EVAPORATION RESIDUE         ppm         <= 0.8	APPEARANCE			CLEAR, COLORLESS LIQUID
Chemical form	ASSAY	%	>= 99.9	100.00
EVAPORATION RESIDUE   ppm	COLOR	APHA	<= 10	<5
IONIC IMPURITY - ALUMINUM (AI)	Chemical form		LIQUID	LIQUID
IONIC IMPURITY - BARIUM (Ba)	EVAPORATION RESIDUE	ppm	<= 0.8	None Detected
IONIC IMPURITY - CADMIUM (Cd)	IONIC IMPURITY - ALUMINUM (AI)	ppb	<= 25	<5
IONIC IMPURITY - CALCIUM (Ca)	IONIC IMPURITY - BARIUM (Ba)	ppb	<= 5	<2
IONIC IMPURITY - CHROMIUM (Cr)	IONIC IMPURITY - CADMIUM (Cd)	ppb	<= 5	<2
IONIC IMPURITY - COBALT (CO)	IONIC IMPURITY - CALCIUM (Ca)	ppb	<= 25	<10
IONIC IMPURITY - COPPER (Cu)	IONIC IMPURITY - CHROMIUM (Cr)	ppb	<= 5	<2
IONIC IMPURITY - IRON (Fe)	IONIC IMPURITY - COBALT (Co)	ppb	<= 5	<2
IONIC IMPURITY - LEAD (Pb)	IONIC IMPURITY - COPPER (Cu)	ppb	<= 5	<5
IONIC IMPURITY - MAGNESIUM (Mg)	IONIC IMPURITY - IRON (Fe)	ppb	<= 5	<5
IONIC IMPURITY - MANGANESE (Mn)   ppb   <= 5   <2	IONIC IMPURITY - LEAD (Pb)	ppb	<= 5	<5
IONIC IMPURITY - NICKEL (NI)   ppb   <= 5   <2	IONIC IMPURITY - MAGNESIUM (Mg)	ppb	<= 10	<5
IONIC IMPURITY - POTASSIUM (K)	IONIC IMPURITY - MANGANESE (Mn)	ppb	<= 5	<2
IONIC IMPURITY - SILVER (Ag)	IONIC IMPURITY - NICKEL (Ni)	ppb	<= 5	<2
IONIC IMPURITY - SODIUM (Na)	IONIC IMPURITY - POTASSIUM (K)	ppb	<= 10	<10
IONIC IMPURITY - TIN (Sn)	IONIC IMPURITY - SILVER (Ag)	ppb	<= 5	<2
IONIC IMPURITY - ZINC (Zn)	IONIC IMPURITY - SODIUM (Na)	ppb	<= 50	<10
LC GRADIENT TEST WITH PDA (200-400 NM)       mAU       <= 2	IONIC IMPURITY - TIN (Sn)	ppb	<= 5	<5
LCMS SUITABILITY - NEG. MODE (AS       ppb       <= 50	IONIC IMPURITY - ZINC (Zn)	ppb	<= 10	<5
CHLORAMPHENICOL)  LCMS SUITABILITY - POS. MODE (AS PROPAZINE)  OPTICAL ABS AT 190 NM  OPTICAL ABS AT 195 NM  OPTICAL ABS AT 200 NM  OPTICAL ABS AT 205 NM  OPTICAL ABS AT 210 NM  OPTICAL ABS AT 210 NM  OPTICAL ABS AT 210 NM  OPTICAL ABS AT 215 NM  OPTICAL ABS AT 220 NM  OPTICAL ABS AT 220 NM  ABS. UNITS <= 0.03  OPTICAL ABS AT 215 NM  OPTICAL ABS AT 220 NM  ABS. UNITS <= 0.025  OPTICAL ABS AT 220 NM  ABS. UNITS <= 0.015  OPTICAL ABS AT 225 NM  OPTICAL ABS AT 225 NM  OPTICAL ABS AT 225 NM  OPTICAL ABS AT 230 NM  ABS. UNITS <= 0.015  OPTICAL ABS AT 230 NM  ABS. UNITS <= 0.015  OPTICAL ABS AT 230 NM  OPTICAL ABS AT 230 NM  ABS. UNITS <= 0.015  O.006	LC GRADIENT TEST WITH PDA (200-400 NM)	mAU	<= 2	None Detected
OPTICAL ABS AT 190 NM       ABS. UNITS       <= 1	•	ppb	<= 50	<50
OPTICAL ABS AT 195 NM       ABS. UNITS <= 0.15	LCMS SUITABILITY - POS. MODE (AS PROPAZINE)	ppb	<= 50	<50
OPTICAL ABS AT 200 NM       ABS. UNITS <= 0.05	OPTICAL ABS AT 190 NM	ABS. UNITS	<= 1	0.64
OPTICAL ABS AT 205 NM       ABS. UNITS <= 0.04	OPTICAL ABS AT 195 NM	ABS. UNITS	<= 0.15	0.09
OPTICAL ABS AT 210 NM       ABS. UNITS <= 0.03	OPTICAL ABS AT 200 NM	ABS. UNITS	<= 0.05	0.036
OPTICAL ABS AT 215 NM       ABS. UNITS <= 0.025	OPTICAL ABS AT 205 NM	ABS. UNITS	<= 0.04	0.025
OPTICAL ABS AT 220 NM         ABS. UNITS <= 0.015	OPTICAL ABS AT 210 NM	ABS. UNITS	<= 0.03	0.018
OPTICAL ABS AT 225 NM         ABS. UNITS <= 0.015	OPTICAL ABS AT 215 NM	ABS. UNITS	<= 0.025	0.013
OPTICAL ABS AT 230 NM ABS. UNITS <= 0.01 0.005	OPTICAL ABS AT 220 NM	ABS. UNITS	<= 0.015	0.009
	OPTICAL ABS AT 225 NM	ABS. UNITS	<= 0.015	0.006
OPTICAL ABS AT 254 NM ABS. UNITS <= 0.005 0.001	OPTICAL ABS AT 230 NM	ABS. UNITS	<= 0.01	0.005
	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.



Fisher Scientific UK Ltd. Bishop Meadow Road Loughborough, LE11 5RG, United Kingdom

 OPTICAL ABS AT 280 NM
 ABS. UNITS
 <= 0.005</td>
 0.001

 TITRATABLE ACID
 mEq/g
 <= 0.0003</td>
 0.0003

 TITRATABLE BASE
 mEq/g
 <= 0.0002</td>
 6.0E-6

Visual colour CLEAR, COLORLESS CLEAR, COLORLESS

WATER (H2O) % <= 0.01 0.002

Additional Information Filtered to 0.1 micron

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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.