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

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	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
BSE/TSE	Not directly derived from or manufactured with any animal byproducts in any way (Including but not limited to fermentation or nutrient broth, catalysts, enzymes).

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	None Detected
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	0.64
OPTICAL ABS AT 195 NM	ABS. UNITS	<= 0.15	0.09
OPTICAL ABS AT 200 NM	ABS. UNITS	<= 0.05	0.036
OPTICAL ABS AT 205 NM	ABS. UNITS	<= 0.04	0.025
OPTICAL ABS AT 210 NM	ABS. UNITS	<= 0.03	0.018
OPTICAL ABS AT 215 NM	ABS. UNITS	<= 0.025	0.013
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 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.

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OPTICAL ABS AT 280 NM	ABS. UNITS	<= 0.005	0.001
TITRATABLE ACID	mEq/g	<= 0.0003	0.0003
TITRATABLE BASE	mEq/g	<= 0.0002	6.0E-6
Visual colour		CLEAR, COLORLESS	CLEAR, COLORLESS
WATER (H2O)	%	<= 0.01	0.002

Additional Information Filtered to 0.1 micron

A. Ganatra

Ashok Ganatra
Supervisor, QC

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