

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by TUV SUD America Inc.
 Certificate Number. 951001163

Catalogue Number	047138
Lot Number	M30M708
Description	Acetonitrile, LC-MS Grade, 99.8%
CAS Number	75-05-8
Quality Test/Release Date	05/Jan/2026
Suggested retest date	05/Jan/2029
Country of Origin	United States
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
Color (APHA)	APHA	≤5	<5
Assay (unspecified)	ppb	Fluorescence at emission max for impurities (at 254 nm): ≤1 ppb	<1
Assay (Titration)	meq/g	Titration acid ≤0.008 meq/g	0.0003
Assay (Titration)	meq/g	Titration base ≤0.0006 meq/g	0.00001
Assay (GC)	%	≥99.8% (corrected for water)	99.98
Assay (GC)	ppt	GC-ECD Responsive residue (single peak (as Heptachlorepoide):≤ 10 ppt	5
Assay (GC)	ppb	GC-FID Responsive residue (single peak) (as 2-Octanol): ≤ 5 ppb	<1
Assay (HPLC)	mAU	LC gradient elution suitability at: 210nm:≤3 mAU and at 254nm: ≤0.5 mAU	1 at 210nm and 0.3 at 254nm
Form		Clear liquid	Clear liquid
Water Content (Karl Fischer Titration)	%	≤0.01%	0.001
LCMS	ppb	≤50 ppb negative mode as Nitrophenol	<50
LCMS	ppb	≤50 ppb positive mode as Reserpine	<50
Optical Absorbance at		190 nm: ≤1.00 AU, 195 nm: ≤0.14 AU, 200 nm: ≤0.05 AU, 210 nm: ≤0.04 AU, 220 nm: ≤ 0.02 AU, 230 nm: ≤ 0.01 AU, 254 nm: ≤0.005 AU, 400 nm: ≤0.005 AU	Conforms
Residue on Evaporation	ppm	≤1 ppm	0.9
Silver (Ag)		<0.001	<0.001
Aluminium (Al)		<0.001	<0.001
Barium (Ba)		<0.001	<0.001
Calcium (Ca)		<0.001	<0.001
Cadmium (Cd)		<0.001	<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.

Cobalt (Co)	<0.001	<0.001
Chromium (Cr)	<0.001	<0.001
Copper (Cu)	<0.001	<0.001
Iron (Fe)	<0.001	<0.001
Potassium (K)	<0.001	<0.001
Magnesium (Mg)	<0.001	<0.001
Manganese (Mn)	<0.001	<0.001
Sodium (Na)	0.001	0.001
Nickel (Ni)	<0.001	<0.001
Lead (Pb)	<0.001	<0.001
Tin (Sn)	<0.001	<0.001
Zinc (Zn)	<0.001	<0.001

Additional Information Values given in ppm unless otherwise stated.



Derek Roy
Quality Manager, LCD

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 and development use only. 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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