

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	A456
Lot Number	2524573
Description	Methanol LC-MS For LC-MC analysis
CAS Number	67-56-1
Quality Test/Release Date	28/Jan/2025
Expiry Phrase	Expires:5 years from analysis date
Country of Origin	Trinidad and Tobago

Result Name	Units	Specifications	Test Value
APPEARANCE		Must be 'CLEAR, COLORLESS LIQUID'	CLEAR, COLORLESS LIQUID
ASSAY	%	>= 99.9	100.00
COLOR	APHA	<= 10	<5
EVAPORATION RESIDUE	ppm	<= 1	None Detected
IDENTIFICATION		Must be 'PASS'	PASS
IONIC IMPURITY - ALUMINUM (Al)	ppb	<= 10	<5
IONIC IMPURITY - BARIUM (Ba)	ppb	<= 10	<2
IONIC IMPURITY - CADMIUM (Cd)	ppb	<= 10	<2
IONIC IMPURITY - CALCIUM (Ca)	ppb	<= 20	<10
IONIC IMPURITY - CHROMIUM (Cr)	ppb	<= 10	<2
IONIC IMPURITY - COBALT (Co)	ppb	<= 10	<2
IONIC IMPURITY - COPPER (Cu)	ppb	<= 10	<5
IONIC IMPURITY - IRON (Fe)	ppb	<= 10	<5
IONIC IMPURITY - LEAD (Pb)	ppb	<= 10	<5
IONIC IMPURITY - MAGNESIUM (Mg)	ppb	<= 10	<5
IONIC IMPURITY - MANGANESE (Mn)	ppb	<= 10	<2
IONIC IMPURITY - NICKEL (Ni)	ppb	<= 10	<2
IONIC IMPURITY - POTASSIUM (K)	ppb	<= 10	<10
IONIC IMPURITY - SILVER (Ag)	ppb	<= 10	<2
IONIC IMPURITY - SODIUM (Na)	ppb	<= 50	<50
IONIC IMPURITY - TIN (Sn)	ppb	<= 10	<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	<= 100	<100
OPTICAL ABS AT 210 NM	ABS. UNITS	<= 0.5	0.089
OPTICAL ABS AT 214 NM	ABS. UNITS	<= 0.4	0.026
OPTICAL ABS AT 220 NM	ABS. UNITS	<= 0.2	0.005
OPTICAL ABS AT 230 NM	ABS. UNITS	<= 0.1	0.002
OPTICAL ABS AT 254 NM	ABS. UNITS	<= 0.01	0.002
OPTICAL ABS AT 260 NM	ABS. UNITS	<= 0.005	0.003
OPTICAL ABS AT 280 NM	ABS. UNITS	<= 0.005	0.004
TITRATABLE ACID	mEq/g	<= 0.0003	0.0001
TITRATABLE BASE	mEq/g	<= 0.0002	0.00002
WATER (H2O)	%	<= 0.02	0.009

Additional Information Filtered to 0.1 micron

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.

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.