



CERTIFICATE OF ANALYSIS

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

A456 Catalogue Number Lot Number 2547985

Description Methanol LC-MS For LC-MC analysis

CAS Number 67-56-1 Quality Test/Release Date 08/Aug/2025

Expiry Phrase Expires:5 years from analysis date

Country of Origin Trinidad and Tobago

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).

| 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 (AI) | 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 | <2 |
| 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 | 0.106 |
| OPTICAL ABS AT 214 NM | ABS. UNITS | <= 0.4 | 0.039 |
| OPTICAL ABS AT 220 NM | ABS. UNITS | <= 0.2 | 0.015 |
| OPTICAL ABS AT 230 NM | ABS. UNITS | <= 0.1 | 0.006 |
| OPTICAL ABS AT 254 NM | ABS. UNITS | <= 0.01 | 0.001 |
| OPTICAL ABS AT 260 NM | ABS. UNITS | <= 0.005 | 0.002 |
| OPTICAL ABS AT 280 NM | ABS. UNITS | <= 0.005 | 0.003 |
| TITRATABLE ACID | mEq/g | <= 0.0003 | 0.0002 |
| TITRATABLE BASE | mEq/g | <= 0.0002 | 0.00002 |
| TITIVATABLE DAGE | 9/9 | 0.0002 | 0.00002 |

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.





Additional Information Filtered to 0.1 micron

A.Ganatra

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