

**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 047192  
Lot Number S20L700  
Description Methanol, LC-MS Grade, 99.8+%  
CAS Number 67-56-1  
Quality Test/Release Date 16/Apr/2025  
Suggested retest date 16/Apr/2030  
Country of Origin Venezuela  
Declaration of Origin Synthetic

Result Name	Units	Specifications	Test Value
Color (APHA)	APHA	≤5	5
Assay (unspecified)	mAU	LC gradient elution suitability at 254 nm: ≤ 2 mAU	0.1
Assay (GC)	%	≥99.8% (GC-FID)	>99.99
Appearance (Color)		Clear	Clear
Form		Liquid	Liquid
Impurity content	ppt	≤ 5ppt- as Heptachlorepoide by GC-ECD Responsive residue ( single peak)	1
Impurity content	ppb	≤1ppb as Quinine sulfate by Fluorescence at emissinon maximum for impurities	<1
Impurity content	ppb	≤5ppb as 2-Octanol by GC-FID Responsive residue ( single peak)	<1
Water Content (Karl Fischer Titration)	%	≤0.02%	0.001
LCMS	ppb	Negative mode ( as Nitrophenol): ≤50 ppb	<50
LCMS	ppb	Positive mode ( as Reserpine): ≤50 ppb	<50
Optical Absorbance at	AU	205nm: ≤1.000 AU	0.573
Optical Absorbance at	AU	220nm: ≤0.25 AU	0.09
Optical Absorbance at	AU	230nm: ≤0.12 AU	0.04
Optical Absorbance at	AU	240 nm: ≤0.05 AU	0.02
Optical Absorbance at	AU	254nm: ≤0.01AU	0.004
Optical Absorbance at	AU	400 to 280 nm: ≤0.005 AU	<0.001 at 400nm, 0.002 at 280nm
Residue on Evaporation	ppm	≤1 ppm	0.1

*John Astarita*

John Astarita  
Director, Quality

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.

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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