

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	J61904
Lot Number	R18M033
Description	L-Methionine, Cell Culture Reagent
CAS Number	63-68-3
Quality Test/Release Date	19/May/2026
Suggested retest date	19/May/2031
Country of Origin	Japan

Result Name	Units	Specifications	Test Value
Assay	%	≥99.0 to ≤ 101.0%	100.0
Chloride content	%	≤0.02% (≤200ppm)	≤0.02
Comment	EU/g	Endotoxin: ≤6.0EU/g	≤6.0
Appearance (Color)		White	White
Form		Crystals or powder or crystalline powder	Crystalline powder
Residue on ignition	%	≤0.10%	0.01
Impurity content	%	Ammonium, NH4: ≤0.02% (≤200ppm)	≤0.02
Impurity content	ppm	Arsenic, As: ≤1ppm	≤1
Impurity content	ppm	Iron, Fe: ≤10ppm	≤10
Impurity content	%	Sulfate, SO4: ≤0.02% (≤200ppm)	≤0.02
Loss on Drying	%	≤0.20% (3hours, 105°C)	0.03
Optical Rotation		@ 20°C: +23.0 to +24.0° (c=2, 6N HCl, dry weight basis)	23.3
Optical Rotation		@ 25°C: +22.4 to +24.7 (c=2, 6N HCl, dry weight basis)	23.4
Heavy Metals (as Pb)	ppm	≤10ppm	≤10
pH		1% in water: pH5.6-6.1	5.8
Solution Test		Water: clear colorless	Clear colorless



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.

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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