

## 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	J62099
Lot Number	Q29M037
Description	L-Lysine monohydrochloride, Cell Culture Reagent
CAS Number	657-27-2
Quality Test/Release Date	30/Apr/2026
Suggested retest date	30/Apr/2031
Country of Origin	China
Declaration of Origin	Other
BSE/TSE	Origin is not animal. Not directly derived from/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
Assay	%	98.5-101.0%	100.1
Chloride content	%	19.12-19.51%	19.40
Comment	EU/g	Endotoxins: ≤6.0EU/g	≤<3.0
Appearance (Color)		White	White
Form		Crystals or powder or crystalline powder	Powder
Impurity content	%	Ammonium, NH4: ≤0.02% (≤200ppm)	≤<0.02
Impurity content	ppm	Arsenic as AS2O3: ≤1ppm	≤<1
Impurity content	ppm	Iron, Fe: ≤10ppm	≤<10
Impurity content	%	Sulphate, SO4: ≤0.02% (≤200ppm)	≤<0.02
Loss on Drying	%	≤0.4%	0.06
Optical Rotation	°	+20.8 to +21.5° (c=8, 6M HCl)	21.2
Heavy Metals (as Pb)	ppm	≤10ppm	≤<5
pH		10% water: pH5.0-6.0	5.7
Sulfated Ash	%	≤0.1%	0.04
Solution Test		10% in water: clear colorless	Conforms
UV Transmittance	%	430nm, 10% water, 10mm cell: ≥98.0%	100.0



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.